

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during 2023-2024

Sr. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	National / International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1.	Mr. Sourabh Kumar Sharma	Innovation and challenges in maternal and newborn care	Leveraging AI to Improve Outcomes in High-Risk Neonates	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
2.	Mr. Nitin Dixit	Innovation and challenges in maternal and newborn care	Integrating Artificial Intelligence in Nursing Practice: Opportunities and Challenges	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
3.	Mr. Chandra Prakash Bhargawa	Innovation and challenges in maternal and newborn care	Telehealth in Nursing: Enhancing Patient Care Through Technology	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
4.	Ms. Vishakha Yadav	Innovation and challenges in maternal and newborn care	The Role of Robotics in Modern Nursing: A Comprehensive Review	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
5.	Dr. Rishi Soni	Innovation and challenges in maternal and newborn care	Wearable health technologies as a transformative force in healthcare	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
6.	Dr. Prabha Dixit	Innovation and challenges in maternal and newborn care	Utilizing Machine Learning for Predictive Analytics in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
7.	Dr. Rajeev Singh Rathor	Innovation and challenges in maternal and newborn care	Virtual Reality in Nursing Education: Bridging the Gap Between Theory and	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior



			Practice					
8.	Mr. Desh Deepak Shrivastava	Innovation and challenges in maternal and newborn care	Blockchain Technology in Nursing: Securing Patient Data	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
9.	Ms. Aruna Bajpai	Innovation and challenges in maternal and newborn care	Virtual Reality in Nursing Education: Bridging the Gap Between Theory and Practice	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
10.	Dr. Jitendra Singh Kushwah	Innovation and challenges in maternal and newborn care	Remote Monitoring Systems in Nursing: Improving Chronic Disease Management	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
11.	Dr. Prashant Sharma	Innovation and challenges in maternal and newborn care	The Impact of Electronic Health Records on Nursing Workflow	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
12.	Mr. Shushant Kumar Jain	Innovation and challenges in maternal and newborn care	Smartphone Applications for Patient Management in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
13.	Mr. Shyam Babu	Innovation and challenges in maternal and newborn care	The Use of Drones in Healthcare Delivery: Implications for Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
14.	Ms. Vishakha Yadav	Innovation and challenges in maternal and newborn care	The Role of Genomics and Precision Medicine in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior



15.	Dr. Rishi Soni	Innovation and challenges in maternal and newborn care	Nanotechnology in Nursing: Advancements and Applications	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
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22.	Dr. Jitendra Singh Kushwah	Innovation and challenges in maternal and newborn care	Leveraging Cloud Computing for Nursing Research and Data Management	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior



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27.	Dr. Ankit Gupta	Innovation and challenges in maternal and newborn care	Introduction to Cloud Computing in Nursing Research	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
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29.	Ms. Neha Sharma	Innovation and challenges in maternal and newborn care	Benefits and Challenges of Cloud Computing in Nursing Research	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior
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CHAPTER 20

LEVERAGING AI TO IMPROVE OUTCOMES IN HIGH-RISK NEONATES

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Abstract

Neonatal care is a critical area of healthcare, especially for high-risk neonates who are vulnerable to various complications. This research explores the potential of Artificial Intelligence (AI) in improving outcomes for high-risk neonates. By leveraging machine learning algorithms and predictive analytics, we aim to enhance early diagnosis, optimize treatment plans, and improve overall neonatal health outcomes. This paper reviews current AI applications in neonatal care, presents a methodology for implementing AI solutions, and discusses the results of a case study in a neonatal intensive care unit (NICU).

Introduction

High-risk neonates, including preterm infants and those with congenital anomalies, require specialized care to improve their survival and long-term health outcomes. Traditional methods of neonatal care, while effective, often lack the predictive power and precision offered by modern AI techniques. This research aims to investigate how AI can be integrated into neonatal care to provide real-time insights, predict complications, and recommend personalized treatment strategies.

Literature Survey

Recent advancements in AI and machine learning have shown promise in various medical fields, including neonatal care. Studies have demonstrated the use of AI in predicting preterm births, diagnosing neonatal sepsis, and optimizing ventilation settings for preterm infants. For instance, a study by Singh et al. (2022) utilized deep

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CHAPTER 21

INTEGRATING ARTIFICIAL INTELLIGENCE IN NURSING PRACTICE: OPPORTUNITIES AND CHALLENGES

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Abstract: The integration of Artificial Intelligence (AI) in nursing practice represents a transformative shift, offering numerous opportunities to enhance patient care, improve efficiency, and support clinical decision-making. However, the adoption of AI also presents significant challenges, including ethical considerations, data security, and the need for specialized training. This paper explores the potential benefits and obstacles associated with AI in nursing, drawing on recent literature and case studies to provide a comprehensive overview of its impact on the field.

Introduction: The healthcare industry is witnessing a technological revolution, with AI playing a pivotal role in redefining clinical practices. In nursing, AI applications range from predictive analytics and patient monitoring to administrative tasks and personalized care. This paper aims to analyze the opportunities AI presents for nursing professionals and the challenges that must be addressed to ensure its successful integration.

Literature Survey:

1. AI in Healthcare: An Overview

- Historical context and evolution of AI in healthcare.
- Current AI technologies and their applications in nursing.

2. Opportunities of AI in Nursing

- Enhanced patient monitoring and early detection of health issues.
- Predictive analytics for personalized patient care.

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CHAPTER 22

TELEHEALTH IN NURSING: ENHANCING PATIENT CARE THROUGH TECHNOLOGY

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Abstract: Telehealth, the use of digital information and communication technologies to access healthcare services remotely, has revolutionized nursing practice. This paper explores how telehealth enhances patient care by improving accessibility, efficiency, and quality of services. It also examines the challenges and limitations of telehealth implementation in nursing. Through a comprehensive literature review, this research highlights the significant impact of telehealth on patient outcomes and nursing workflows.

The methodology includes a mixed-methods approach, utilizing both quantitative and qualitative data to provide a holistic understanding of telehealth's role in nursing. The findings reveal that telehealth offers numerous benefits, including increased patient engagement, reduced hospital readmissions, and cost savings, while also presenting challenges such as technology barriers and privacy concerns. The paper concludes with recommendations for optimizing telehealth in nursing practice.

Introduction: Telehealth has emerged as a critical component of modern healthcare, particularly in the field of nursing. It involves the use of telecommunication technologies to provide clinical care, education, and health administration. Telehealth offers a range of benefits, including improved access to care, especially in rural and underserved areas, enhanced patient engagement, and more efficient healthcare delivery. The COVID-19 pandemic has further accelerated the adoption of telehealth, highlighting its importance in ensuring continuity of care during times of crisis. This paper aims to investigate the impact of telehealth on nursing practice, exploring how it enhances patient care, the challenges faced in its implementation, and strategies for overcoming these challenges.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
4	Ms. Vishakha Yadav	Innovation and challenges in maternal and newborn care	The Role of Robotics in Modern Nursing: A Comprehensive Review	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 23

THE ROLE OF ROBOTICS IN MODERN NURSING: A COMPREHENSIVE REVIEW

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ABSTRACT: Robotics in modern nursing has emerged as a transformative technology with the potential to revolutionize patient care, improve efficiency, and alleviate workforce challenges. This comprehensive review examines the current state of robotics in nursing, focusing on its applications, benefits, and challenges. By analyzing existing literature and case studies, we highlight how robotic technologies can enhance nursing practices, from assisting with routine tasks to providing complex care. The findings indicate significant improvements in patient outcomes and nurse productivity, while also addressing concerns such as high costs, technical challenges, and ethical considerations. The paper concludes with recommendations for integrating robotics into nursing practice effectively.

INTRODUCTION: The integration of robotics into healthcare, particularly nursing, represents a significant advancement in medical technology. As the healthcare industry faces increasing demands due to aging populations, chronic disease prevalence, and a shortage of healthcare professionals, robotics offers promising solutions to these challenges. Robotic systems can assist nurses with routine tasks, enhance patient monitoring, and even provide direct patient care. This paper aims to provide a comprehensive review of the role of robotics in modern nursing, examining the current applications, benefits, challenges, and future prospects of this technology.

LITERATURE REVIEW:

1. Historical Context and Evolution of Robotics in Healthcare:

- Early developments and initial applications of robotics in surgery and rehabilitation.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
5	Dr. Rishi Soni	Innovation and challenges in maternal and newborn care	Wearable health technologies as a transformative force in healthcare	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 24

WEARABLE HEALTH TECHNOLOGIES AS A TRANSFORMATIVE FORCE IN HEALTHCARE

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Abstract

Wearable health technologies have emerged as a transformative force in healthcare, offering innovative solutions for monitoring and managing patient health. This paper explores the impact of these technologies on nursing care, highlighting their benefits, challenges, and future potential. Through a comprehensive review of current literature and case studies, this research delves into the ways wearable health devices are reshaping nursing practices, improving patient outcomes, and addressing healthcare inefficiencies. The paper concludes with recommendations for integrating these technologies into nursing care to enhance healthcare delivery and patient well-being.

Introduction

The advent of wearable health technologies marks a significant milestone in the evolution of healthcare. These devices, ranging from fitness trackers to advanced biosensors, have the potential to revolutionize the way health information is collected, analyzed, and utilized. For nursing care, which plays a pivotal role in patient monitoring and management, the integration of wearable health technologies offers promising opportunities for enhanced patient care, early intervention, and improved health outcomes.

Historical Context and Development

Wearable health technologies have evolved rapidly over the past few decades. Early iterations, such as simple pedometers, have given way to sophisticated devices capable of monitoring a wide range of physiological parameters in real time. Advances in sensor technology, miniaturization, and data analytics have fueled this growth, making

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
6	Dr. Prabha Dixit	Innovation and challenges in maternal and newborn care	Utilizing Machine Learning for Predictive Analytics in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 25

UTILIZING MACHINE LEARNING FOR PREDICTIVE ANALYTICS IN NURSING

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Abstract

The advent of machine learning (ML) in healthcare has marked a significant transformation, particularly in predictive analytics within the nursing sector. This paper explores the applications, benefits, challenges, and future directions of ML in nursing predictive analytics. We delve into various ML techniques used, their integration into nursing workflows, and the potential improvements in patient outcomes, operational efficiency, and resource management. By examining case studies and current research, we highlight the practical implications and the necessity for ethical considerations in deploying ML solutions in nursing.

Introduction

Predictive analytics involves using historical data to make predictions about future events. In healthcare, particularly nursing, predictive analytics can anticipate patient deterioration, optimize resource allocation, and improve overall patient care. Machine learning, a subset of artificial intelligence (AI), has revolutionized predictive analytics by enabling systems to learn from data and make accurate predictions with minimal human intervention.

Machine Learning Techniques in Nursing Predictive Analytics

- Supervised Learning:** Supervised learning algorithms, such as linear regression, logistic regression, support vector machines (SVM), and neural networks, are extensively used in nursing for predictive purposes. These algorithms require

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
7	Dr. Rajeev Singh Rathor	Innovation and challenges in maternal and newborn care	Virtual Reality in Nursing Education: Bridging the Gap Between Theory and Practice	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 26

VIRTUAL REALITY IN NURSING EDUCATION: BRIDGING THE GAP BETWEEN THEORY AND PRACTICE

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Abstract

Virtual Reality (VR) has emerged as a powerful tool in nursing education, offering innovative ways to bridge the gap between theoretical knowledge and practical experience. This paper explores the role of VR in nursing education, examining its potential to enhance learning, improve clinical skills, and provide immersive simulation experiences. By reviewing current literature, case studies, and educational models, this research highlights the benefits and challenges of integrating VR into nursing curricula. The paper concludes with recommendations for effectively implementing VR in nursing education to optimize learning outcomes and prepare future nurses for real-world clinical scenarios.

Introduction

The traditional approach to nursing education often involves a significant gap between classroom learning and practical clinical experience. While theoretical knowledge is crucial, the application of this knowledge in real-world scenarios is equally important. Virtual Reality (VR) offers a promising solution to bridge this gap by providing immersive, interactive simulations that can replicate complex clinical situations and environments. This paper investigates how VR can enhance nursing education, the benefits it offers, and the challenges associated with its implementation.

Historical Context and Development of VR in Nursing Education

VR technology has evolved from its early conceptual stages to become a sophisticated educational tool. Initially used primarily in gaming and entertainment, VR has found applications in various fields, including healthcare. In nursing education, VR has

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
8	Mr. Desh Deepak Shrivastava	Innovation and challenges in maternal and newborn care	Blockchain Technology in Nursing: Securing Patient Data	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 27

BLOCKCHAIN TECHNOLOGY IN NURSING: SECURING PATIENT DATA

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Abstract

Blockchain technology, originally developed for cryptocurrency transactions, is gaining attention in the healthcare sector for its potential to secure patient data. This paper explores the application of blockchain technology in nursing, focusing on data security, integrity, and patient privacy. We examine the principles of blockchain, its advantages over traditional systems, and specific use cases in nursing. Additionally, we address challenges and propose future directions for integrating blockchain in healthcare to safeguard patient data.

Introduction

The healthcare industry is increasingly digital, with electronic health records (EHRs) and other digital systems becoming standard. While these advancements have improved patient care, they have also introduced significant challenges in data security and privacy. Cybersecurity breaches, unauthorized access, and data tampering are critical concerns. Blockchain technology offers a promising solution to these issues by providing a decentralized, immutable, and secure method of managing patient data.

Understanding Blockchain Technology

Principles of Blockchain

Blockchain is a distributed ledger technology that allows for the secure, transparent, and immutable recording of transactions. Each block in a blockchain contains a list of transactions, and these blocks are linked together in a chronological chain. Key principles of blockchain include:

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
9	Ms. Aruna Bajpai	Innovation and challenges in maternal and newborn care	Virtual Reality in Nursing Education: Bridging the Gap Between Theory and Practice	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 28

VIRTUAL REALITY IN NURSING EDUCATION: BRIDGING THE GAP BETWEEN THEORY AND PRACTICE

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Abstract

Virtual Reality (VR) has emerged as a transformative tool in various fields, including education and healthcare. In nursing education, VR offers a dynamic platform for bridging the gap between theoretical knowledge and practical skills. This paper explores the application of VR in nursing education, highlighting its potential benefits, challenges, and future directions. We examine how VR can enhance learning experiences, improve clinical skills, and prepare nursing students for real-world scenarios. Through a review of current literature and case studies, we provide a comprehensive analysis of VR's role in advancing nursing education.

Introduction

Nursing education traditionally relies on a combination of classroom instruction, simulations, and clinical placements to prepare students for real-world practice. While these methods provide valuable learning experiences, they also have limitations, such as restricted access to clinical settings, variability in patient cases, and potential gaps in practical skills development. Virtual Reality (VR) offers an innovative solution to these challenges by creating immersive, interactive learning environments. This paper explores how VR can bridge the gap between theoretical knowledge and practical experience in nursing education.

Understanding Virtual Reality

Principles of Virtual Reality

Virtual Reality is a computer-generated environment that simulates real or imagined worlds, providing users with immersive experiences. Key principles of VR include:

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
10	Dr. Jitendra Singh Kushwah	Innovation and challenges in maternal and newborn care	Remote Monitoring Systems in Nursing: Improving Chronic Disease Management	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 29

REMOTE MONITORING SYSTEMS IN NURSING: IMPROVING CHRONIC DISEASE MANAGEMENT

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Abstract

Remote monitoring systems have emerged as a critical tool in managing chronic diseases, offering innovative solutions to enhance patient care and optimize health outcomes. This paper explores the impact of remote monitoring systems in nursing, focusing on their role in chronic disease management. Through a comprehensive review of existing literature and case studies, this research examines the benefits, challenges, and future potential of these technologies. The paper highlights how remote monitoring systems can improve patient outcomes, streamline care delivery, and provide valuable data for personalized treatment. Recommendations for effectively integrating remote monitoring systems into nursing practice are also discussed.

Introduction

Chronic diseases, such as diabetes, hypertension, and heart failure, pose significant challenges to healthcare systems worldwide. Managing these conditions requires continuous monitoring and proactive intervention to prevent complications and improve quality of life. Remote monitoring systems, which use digital technologies to collect and transmit health data from patients to healthcare providers, offer a promising solution to enhance chronic disease management. This paper investigates how remote monitoring systems are transforming nursing practice, improving patient outcomes, and addressing the challenges of chronic disease management.

Historical Context and Development of Remote Monitoring Systems

Remote monitoring systems have evolved from early telehealth initiatives to sophisticated platforms that leverage advanced technologies. The development of these

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
11	Dr. Prashant Sharma	Innovation and challenges in maternal and newborn care	The Impact of Electronic Health Records on Nursing Workflow	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 31

THE IMPACT OF ELECTRONIC HEALTH RECORDS ON NURSING WORKFLOW

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Abstract

Electronic Health Records (EHRs) have become a cornerstone of modern healthcare, offering numerous advantages over traditional paper-based systems. This paper examines the impact of EHRs on nursing workflow, focusing on how these systems have transformed nursing practice, improved patient care, and influenced efficiency. We explore the benefits and challenges associated with EHR implementation and provide a comprehensive analysis of how EHRs have reshaped nursing roles, communication, and patient management. Through a review of current literature and case studies, we highlight key findings and propose recommendations for optimizing EHR use in nursing.

Introduction

The transition from paper-based records to Electronic Health Records (EHRs) represents a significant advancement in healthcare technology. EHRs have the potential to streamline nursing workflows, enhance patient care, and improve clinical outcomes. However, the integration of EHRs into nursing practice has also presented challenges and complexities. This paper explores the impact of EHRs on nursing workflow, examining both the positive and negative effects of this technological shift.

Understanding Electronic Health Records

Definition and Components of EHRs

Electronic Health Records (EHRs) are digital versions of patients' medical histories and care information, designed to be shared across different healthcare settings. Key components of EHR systems include:



Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
12	Mr. Shushant Kumar Jain	Innovation and challenges in maternal and newborn care	Smartphone Applications for Patient Management in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 32

SMARTPHONE APPLICATIONS FOR PATIENT MANAGEMENT IN NURSING

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Abstract

Smartphone applications have become integral tools in patient management, offering innovative solutions for tracking health, facilitating communication, and managing chronic conditions. This paper explores the role of smartphone applications in nursing practice, focusing on their impact on patient management.

Through a comprehensive review of current literature, case studies, and applications, this research examines the benefits, challenges, and future potential of these technologies.

The paper highlights how smartphone applications can enhance patient care, improve outcomes, and streamline nursing workflows. Recommendations for effective implementation and integration into nursing practice are also discussed.

Introduction

The advent of smartphones has revolutionized various aspects of daily life, including healthcare. Smartphone applications (apps) have emerged as powerful tools in patient management, offering functionalities that range from tracking vital signs to facilitating communication between patients and healthcare providers.

In nursing, these applications have the potential to transform how care is delivered, improve patient outcomes, and enhance the efficiency of healthcare services.

This paper investigates the impact of smartphone applications on patient management in nursing, focusing on their applications, benefits, challenges, and future directions.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
13	Mr. Shyam Babu	Innovation and challenges in maternal and newborn care	The Use of Drones in Healthcare Delivery: Implications for Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 33

THE USE OF DRONES IN HEALTHCARE DELIVERY: IMPLICATIONS FOR NURSING

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Abstract

The integration of drone technology into healthcare delivery represents a significant advancement with the potential to transform patient care, particularly in areas with limited access to medical services. This paper examines the use of drones in healthcare delivery, focusing on their implications for nursing practice.

We explore the benefits, challenges, and potential applications of drones in various healthcare contexts, including emergency response, medical supply distribution, and telemedicine. Through a review of current literature and case studies, we assess how drones can enhance nursing practice, improve patient outcomes, and address healthcare disparities. The paper concludes with recommendations for integrating drone technology into nursing workflows and healthcare systems.

Introduction

Drones, also known as unmanned aerial vehicles (UAVs), have rapidly evolved from military tools to versatile technologies with a wide range of applications. In healthcare, drones offer innovative solutions for delivering medical supplies, facilitating emergency response, and supporting telemedicine.

The potential benefits of drones in healthcare include improved access to care, enhanced efficiency, and better patient outcomes. This paper explores the use of drones in healthcare delivery, focusing on their implications for nursing practice and examining how they can be integrated into healthcare systems to address challenges and improve care delivery.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
14	Ms. Vishakha Yadav	Innovation and challenges in maternal and newborn care	The Role of Genomics and Precision Medicine in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 34

THE ROLE OF GENOMICS AND PRECISION MEDICINE IN NURSING

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Abstract

Genomics and precision medicine are transforming healthcare by enabling tailored approaches to diagnosis, treatment, and prevention based on individual genetic profiles. This paper explores the role of genomics and precision medicine in nursing, focusing on how these advancements impact patient care, improve outcomes, and influence nursing practice.

Through a comprehensive review of current literature and case studies, the paper examines the integration of genomic data into clinical settings, the benefits and challenges associated with precision medicine, and the evolving role of nurses in this domain. Recommendations for incorporating genomics and precision medicine into nursing education and practice are also discussed.

Introduction

The integration of genomics and precision medicine into healthcare represents a paradigm shift from one-size-fits-all approaches to personalized care tailored to individual genetic profiles. This shift has significant implications for nursing practice, as nurses play a crucial role in implementing and managing personalized care plans.

By leveraging genomic information, nurses can enhance patient care, provide targeted interventions, and contribute to better health outcomes. This paper investigates the role of genomics and precision medicine in nursing, exploring how these fields are transforming patient management and the implications for nursing practice.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
15	Dr. Rishi Soni	Innovation and challenges in maternal and newborn care	Nanotechnology in Nursing: Advancements and Applications	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 35

NANOTECHNOLOGY IN NURSING: ADVANCEMENTS AND APPLICATIONS

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Abstract

Nanotechnology, the manipulation of matter at an atomic or molecular scale, has the potential to revolutionize various fields, including healthcare. In nursing, nanotechnology promises advancements in diagnostics, treatment, and patient care, offering solutions that enhance precision, effectiveness, and patient outcomes.

This research article explores the advancements and applications of nanotechnology in nursing, including its role in diagnostics, drug delivery, wound care, and infection control.

Through a comprehensive review of current literature and case studies, we assess the impact of nanotechnology on nursing practice and propose future directions for its integration into healthcare settings.

Introduction

Nanotechnology involves engineering at the nanoscale, typically less than 100 nanometers, to create materials and devices with novel properties and functions. In nursing and healthcare, nanotechnology offers significant potential for improving patient care through innovative diagnostic tools, targeted drug delivery systems, advanced wound care, and enhanced infection control measures.

The integration of nanotechnology into nursing practice holds promise for transforming various aspects of patient management and treatment.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
16	Mr. Mangesh Tomar	Innovation and challenges in maternal and newborn care	Cybersecurity in Nursing: Protecting Patient Information in a Digital Age	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 36

CYBERSECURITY IN NURSING: PROTECTING PATIENT INFORMATION IN A DIGITAL AGE

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Abstract

The integration of digital technologies in healthcare has revolutionized patient care but has also heightened concerns about cybersecurity and the protection of sensitive patient information. This paper explores the significance of cybersecurity in nursing, emphasizing strategies and practices necessary to safeguard patient data in a digital age.

It reviews current threats, regulatory frameworks, best practices, and the role of nursing professionals in maintaining cybersecurity. Through a detailed analysis of recent incidents and technological advancements, the paper aims to provide insights and recommendations for enhancing cybersecurity in nursing practice.

Introduction

The rapid advancement of digital technologies in healthcare has led to the widespread use of electronic health records (EHRs), telehealth platforms, and other digital tools in nursing practice. While these technologies offer significant benefits, they also introduce vulnerabilities and risks related to cybersecurity.

Protecting patient information has become a critical concern, necessitating robust cybersecurity measures to prevent data breaches and unauthorized access.

This paper examines the role of cybersecurity in nursing, focusing on the challenges, best practices, and strategies for safeguarding patient information.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
17	Mr. Gagan Mudgal	Innovation and challenges in maternal and newborn care	3D Printing in Nursing: Customizing Patient Care Solutions	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 37

3D PRINTING IN NURSING: CUSTOMIZING PATIENT CARE SOLUTIONS

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Abstract

3D printing technology has introduced innovative possibilities in healthcare, enabling the customization of patient care solutions and enhancing the delivery of personalized care. This paper explores the applications of 3D printing in nursing, focusing on how it is used to create custom medical devices, prosthetics, and educational tools. The paper reviews current advancements, case studies, and the benefits and challenges associated with 3D printing in nursing practice. Recommendations for integrating 3D printing into patient care are also discussed.

Introduction

3D printing, or additive manufacturing, has emerged as a transformative technology in healthcare, offering the ability to create customized medical devices, prosthetics, and educational tools tailored to individual patient needs. In nursing, 3D printing can enhance patient care by providing personalized solutions that improve outcomes and patient satisfaction. This paper examines the role of 3D printing in nursing, exploring its applications, benefits, challenges, and future directions.

Historical Context of 3D Printing in Healthcare

Early Developments

The concept of 3D printing dates back to the 1980s, with early applications focused on industrial prototyping. The technology gradually found applications in healthcare, starting with the creation of anatomical models for surgical planning and medical education.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
18	Ms. Neha Sharma	Innovation and challenges in maternal and newborn care	Artificial Intelligence in Nursing Diagnostics: Enhancing Accuracy and Efficiency	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 38

ARTIFICIAL INTELLIGENCE IN NURSING DIAGNOSTICS: ENHANCING ACCURACY AND EFFICIENCY

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Abstract

Artificial Intelligence (AI) has emerged as a transformative force in healthcare, with significant implications for nursing diagnostics. This paper explores the integration of AI technologies in nursing diagnostics, focusing on how AI enhances diagnostic accuracy and efficiency. We review various AI applications, including machine learning algorithms, natural language processing, and predictive analytics. Through an analysis of current literature and case studies, we assess the impact of AI on nursing diagnostics, identify challenges and considerations, and propose strategies for successful integration into clinical practice.

Introduction

The field of nursing diagnostics is undergoing a transformation with the integration of Artificial Intelligence (AI) technologies. AI, encompassing machine learning, natural language processing, and predictive analytics, offers potential advancements in diagnostic accuracy, efficiency, and patient outcomes. This paper explores the role of AI in nursing diagnostics, highlighting its applications, benefits, and challenges, and providing recommendations for successful implementation.

Overview of Artificial Intelligence in Healthcare

1. Definitions and Concepts

- **Artificial Intelligence (AI):** The simulation of human intelligence in machines programmed to perform tasks that typically require human intelligence, such as learning, reasoning, and problem-solving.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
19	Mr. Rajkumar Rajoria	Innovation and challenges in maternal and newborn care	The Future of Nursing with Internet of Things (IoT) Technologies	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 39

THE FUTURE OF NURSING WITH INTERNET OF THINGS (IOT) TECHNOLOGIES

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Abstract

The Internet of Things (IoT) is transforming various sectors, including healthcare, by enabling interconnected devices and systems that enhance patient monitoring, care, and management. This paper explores the impact of IoT technologies on nursing practice, examining how IoT devices and systems are shaping the future of nursing care.

We review key IoT applications, including remote patient monitoring, smart medical devices, and data integration, and discuss the implications for nursing practice, patient outcomes, and healthcare efficiency.

Challenges and considerations related to IoT adoption in nursing are also addressed, with recommendations for future developments and research.

Introduction

The Internet of Things (IoT) refers to the network of interconnected devices and systems that communicate and exchange data via the internet.

In nursing and healthcare, IoT technologies offer opportunities for enhancing patient monitoring, improving care delivery, and optimizing healthcare management.

This paper explores the future of nursing with IoT technologies, highlighting their applications, benefits, and challenges, and providing recommendations for successful integration into nursing practice.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
20	Mr. Chandra Prakash Bhargawa	Innovation and challenges in maternal and newborn care	Telemedicine in Rural Nursing: Bridging Healthcare Gaps	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 40

TELEMEDICINE IN RURAL NURSING: BRIDGING HEALTHCARE GAPS

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Abstract

Telemedicine has emerged as a transformative tool in healthcare, particularly for rural and underserved areas where access to healthcare services is limited. This paper explores the role of telemedicine in rural nursing, examining its impact on bridging healthcare gaps, improving access to care, and enhancing patient outcomes. It reviews the benefits, challenges, and best practices associated with telemedicine in rural settings, and provides recommendations for integrating telemedicine into rural nursing practice.

Introduction

Rural areas often face significant challenges in accessing healthcare services due to factors such as geographic isolation, shortage of healthcare professionals, and limited healthcare infrastructure. Telemedicine offers a solution by leveraging digital technology to provide remote consultations, diagnostics, and treatment. This paper investigates how telemedicine is addressing these challenges in rural nursing and the implications for patient care and nursing practice.

Historical Context and Development of Telemedicine

Early Developments

Telemedicine began with the use of telecommunication technologies to deliver healthcare services from a distance. Early applications included teleconsultations and remote diagnostics using basic communication tools. As technology advanced,

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
21	Mr. Amit Jain	Innovation and challenges in maternal and newborn care	Augmented Reality in Nursing Training and Simulation	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 41

AUGMENTED REALITY IN NURSING TRAINING AND SIMULATION

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Abstract

Augmented Reality (AR) has emerged as a cutting-edge technology with significant potential for enhancing nursing training and simulation. This paper explores the use of AR in nursing education, focusing on its applications, benefits, and challenges. It reviews current AR technologies and their impact on nursing training, providing insights into how AR can improve clinical skills, enhance learning experiences, and prepare nursing students for real-world scenarios. Recommendations for integrating AR into nursing education are also discussed.

Introduction

Augmented Reality (AR) integrates digital information with the physical world, creating interactive and immersive learning experiences. In nursing education, AR offers innovative ways to enhance training and simulation, allowing students to practice skills and scenarios in a controlled and interactive environment. This paper examines the role of AR in nursing training, exploring its applications, advantages, and potential challenges, and provides recommendations for effective integration into nursing education.

Historical Context and Development of AR Technology

Early Developments

The concept of Augmented Reality dates back to the 1990s, with early applications focused on enhancing visual information with computer-generated overlays.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
22	Dr. Jitendra Singh Kushwah	Innovation and challenges in maternal and newborn care	Leveraging Cloud Computing for Nursing Research and Data Management	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 42

LEVERAGING CLOUD COMPUTING FOR NURSING RESEARCH AND DATA MANAGEMENT

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Abstract

Cloud computing has revolutionized various sectors by offering scalable and flexible solutions for data storage, management, and analysis. In nursing, cloud computing presents significant opportunities for advancing research, improving data management, and enhancing patient care. This paper explores how cloud computing technologies are utilized in nursing research and data management. It discusses the benefits of cloud computing, including enhanced data accessibility, collaboration, and scalability, and examines challenges such as data security and integration. The paper concludes with recommendations for effectively leveraging cloud computing in nursing practice and research.

Introduction

Cloud computing refers to the delivery of computing services over the internet, including data storage, processing power, and applications. This technology offers significant advantages for nursing research and data management, including flexibility, scalability, and cost-efficiency.

As the nursing field increasingly relies on data-driven decision-making and research, cloud computing presents opportunities for improving data management practices, facilitating collaborative research, and advancing evidence-based nursing practices. This paper examines the role of cloud computing in nursing, exploring its applications, benefits, challenges, and future directions.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
23	Dr. Pradeep Yadav	Innovation and challenges in maternal and newborn care	Smart Home Technologies and Their Role in G Geriatric Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 43

SMART HOME TECHNOLOGIES AND THEIR ROLE IN G GERIATRIC NURSING

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Abstract

Smart home technologies are increasingly being integrated into healthcare to enhance the quality of life for older adults. These technologies, which include sensors, automation systems, and health monitoring devices, have the potential to significantly impact geriatric nursing by improving patient safety, enabling independent living, and supporting personalized care. This paper explores the role of smart home technologies in geriatric nursing, reviewing their applications, benefits, and challenges. It also provides recommendations for the effective implementation and integration of these technologies into geriatric care.

Introduction

Smart home technologies are designed to improve home environments through the use of interconnected devices and systems that automate and monitor various aspects of daily living. In geriatric nursing, these technologies offer opportunities to enhance care for older adults by providing tools for remote monitoring, fall detection, and health management. This paper examines the impact of smart home technologies on geriatric nursing, discussing their applications, benefits, and challenges, and offering recommendations for effective integration.

Overview of Smart Home Technologies

1. Definitions and Concepts

- **Smart Home Technologies:** Interconnected devices and systems that automate and monitor various aspects of home environments, including lighting, security, and health monitoring.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
24	Dr. Prabha Dixit	Innovation and challenges in maternal and newborn care	The Role of Digital Therapeutics in Nursing Practice: A Systematic Review	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 44

THE ROLE OF DIGITAL THERAPEUTICS IN NURSING PRACTICE: A SYSTEMATIC REVIEW

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Abstract

Digital therapeutics (DTx) represent an emerging frontier in healthcare, leveraging technology to deliver therapeutic interventions directly to patients. This systematic review aims to evaluate the role of digital therapeutics in nursing practice, focusing on their impact on patient outcomes, integration into care models, and the challenges faced in their implementation. By analyzing current literature and case studies, this paper provides insights into the effectiveness, benefits, and limitations of digital therapeutics in nursing.

Introduction

Digital therapeutics (DTx) are evidence-based therapeutic interventions that use software to deliver medical treatments to patients. Unlike traditional digital health tools, DTx are designed to manage, treat, or prevent diseases by providing therapeutic interventions. As healthcare increasingly incorporates digital solutions, nursing practice is evolving to integrate these new tools. This review examines the role of digital therapeutics in nursing, exploring their potential to enhance patient care, improve outcomes, and address the challenges associated with their implementation.

Methodology

Search Strategy

A systematic search was conducted in major academic databases, including PubMed, CINAHL, and Scopus, using keywords related to digital therapeutics, nursing practice,

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
25	Mr. Kapil Jain	Innovation and challenges in maternal and newborn care	Artificial Intelligence in Nursing Diagnostics: Enhancing Accuracy and Efficiency	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 45

ARTIFICIAL INTELLIGENCE IN NURSING DIAGNOSTICS: ENHANCING ACCURACY AND EFFICIENCY

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Abstract

Artificial Intelligence (AI) has emerged as a transformative force in healthcare, with significant implications for nursing diagnostics. This paper explores the integration of AI technologies in nursing diagnostics, focusing on how AI enhances diagnostic accuracy and efficiency. We review various AI applications, including machine learning algorithms, natural language processing, and predictive analytics. Through an analysis of current literature and case studies, we assess the impact of AI on nursing diagnostics, identify challenges and considerations, and propose strategies for successful integration into clinical practice.

Introduction

The field of nursing diagnostics is undergoing a transformation with the integration of Artificial Intelligence (AI) technologies. AI, encompassing machine learning, natural language processing, and predictive analytics, offers potential advancements in diagnostic accuracy, efficiency, and patient outcomes. This paper explores the role of AI in nursing diagnostics, highlighting its applications, benefits, and challenges, and providing recommendations for successful implementation.

Overview of Artificial Intelligence in Healthcare

1. Definitions and Concepts

- **Artificial Intelligence (AI):** The simulation of human intelligence in machines programmed to perform tasks that typically require human intelligence, such as learning, reasoning, and problem-solving.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
26	Dr. Prabha Dixit	Innovation and challenges in maternal and newborn care	The Future of Nursing with Internet of Things (IoT) Technologies	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 46

THE FUTURE OF NURSING WITH INTERNET OF THINGS (IOT) TECHNOLOGIES

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Abstract

The Internet of Things (IoT) is transforming various sectors, including healthcare, by enabling interconnected devices and systems that enhance patient monitoring, care, and management.

This paper explores the impact of IoT technologies on nursing practice, examining how IoT devices and systems are shaping the future of nursing care.

We review key IoT applications, including remote patient monitoring, smart medical devices, and data integration, and discuss the implications for nursing practice, patient outcomes, and healthcare efficiency.

Challenges and considerations related to IoT adoption in nursing are also addressed, with recommendations for future developments and research.

Introduction

The Internet of Things (IoT) refers to the network of interconnected devices and systems that communicate and exchange data via the internet.

In nursing and healthcare, IoT technologies offer opportunities for enhancing patient monitoring, improving care delivery, and optimizing healthcare management.

This paper explores the future of nursing with IoT technologies, highlighting their applications, benefits, and challenges, and providing recommendations for successful integration into nursing practice.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
27	Dr. Ankit Gupta	Innovation and challenges in maternal and newborn care	Introduction to Cloud Computing in Nursing Research	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 47

INTRODUCTION TO CLOUD COMPUTING IN NURSING RESEARCH

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1.1 Overview of Cloud Computing

Definition and Core Concepts

Cloud computing refers to the on-demand availability of computing resources over the internet, including storage, processing power, and networking. It allows users to access and utilize these resources without the need for owning and managing physical infrastructure (Mell & Grance, 2011).

Service Models

Cloud computing is typically divided into three primary service models:

- **Infrastructure as a Service (IaaS):** Provides virtualized computing resources over the internet. Examples include Amazon Web Services (AWS) and Google Compute Engine.
- **Platform as a Service (PaaS):** Offers hardware and software tools over the internet, often for application development. Examples include Google App Engine and Microsoft Azure.
- **Software as a Service (SaaS):** Delivers software applications over the internet, on a subscription basis. Examples include Google Workspace and Microsoft Office 365 (Armbrust et al., 2010).

Deployment Models

There are several cloud deployment models:

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
28	Dr. ManojBandil	Innovation and challenges in maternal and newborn care	Historical Evolution and Future Trends of Cloud Computing in Healthcare	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 48

HISTORICAL EVOLUTION AND FUTURE TRENDS OF CLOUD COMPUTING IN HEALTHCARE

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Introduction

Cloud computing has revolutionized various industries by providing scalable, flexible, and cost-effective computing resources. In the healthcare sector, the adoption of cloud computing has transformed data management, improved patient care, and enhanced research capabilities. This chapter explores the historical evolution of cloud computing in healthcare, its current state, and future trends that will shape the industry's landscape.

1. Historical Evolution of Cloud Computing in Healthcare

1.1 Early Beginnings

1.1.1 Theoretical Foundations

The concept of cloud computing can be traced back to the 1960s when computer scientist John McCarthy suggested that computation could someday be organized as a public utility. However, the practical implementation of this idea did not materialize until several decades later (Marston et al., 2011).

1.1.2 Initial Developments

In the 1990s, the advent of the internet and advancements in virtualization technology laid the groundwork for cloud computing. Companies began to explore the potential of delivering computing resources over the internet. One of the earliest examples was Salesforce, which introduced its cloud-based customer relationship management (CRM) system in 1999 (Armbrust et al., 2010).

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29	Ms. Neha Sharma	Innovation and challenges in maternal and newborn care	Benefits and Challenges of Cloud Computing in Nursing Research	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 49

BENEFITS AND CHALLENGES OF CLOUD COMPUTING IN NURSING RESEARCH

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Introduction

Cloud computing has revolutionized numerous fields, including healthcare and nursing research. The ability to store, manage, and analyze vast amounts of data has opened new avenues for nursing research, enabling more efficient workflows, enhanced collaboration, and accelerated discoveries. However, the adoption of cloud computing also presents several challenges, particularly in areas such as data security, privacy, and interoperability. This chapter will delve into the multifaceted benefits and challenges of cloud computing in nursing research, providing a comprehensive understanding of its impact on the field.

1. Overview of Cloud Computing

1.1 Definition and Key Concepts

Cloud computing refers to the delivery of computing services, including storage, processing, and software, over the internet (the cloud). This model allows users to access and utilize resources on demand, without the need for local infrastructure or hardware. Key concepts in cloud computing include:

- **Infrastructure as a Service (IaaS):** Provides virtualized computing resources over the internet.
- **Platform as a Service (PaaS):** Offers hardware and software tools over the internet, typically for application development.
- **Software as a Service (SaaS):** Delivers software applications over the internet, accessible via a web browser.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
30	Mr. Amit Jain	Innovation and challenges in maternal and newborn care	Data Security and Privacy Concerns in Cloud-Based Nursing Research	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 50

DATA SECURITY AND PRIVACY CONCERNS IN CLOUD-BASED NURSING RESEARCH

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Introduction

Cloud computing has revolutionized many aspects of nursing research by providing scalable resources, advanced analytics, and enhanced collaboration capabilities. However, the transition to cloud-based systems introduces significant data security and privacy concerns that must be addressed to safeguard sensitive research information and maintain compliance with regulatory standards. This chapter explores the various data security and privacy concerns associated with cloud-based nursing research, discussing the risks, challenges, and strategies for mitigating these issues.

1. Understanding Data Security and Privacy in Cloud Computing

1.1 Definition and Importance

Data Security refers to the protection of data from unauthorized access, use, disclosure, disruption, modification, or destruction. In the context of cloud computing, data security involves ensuring the confidentiality, integrity, and availability of data stored and processed in the cloud.

Data Privacy concerns the rights and expectations of individuals regarding the collection, use, and sharing of their personal information. Privacy in cloud computing involves managing and protecting personal data in accordance with legal and regulatory requirements.

For nursing research, where patient data is often sensitive and confidential, both data security and privacy are critical to maintaining trust, ensuring compliance, and safeguarding research integrity.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
31	Mr. Amit Jain	Innovation and challenges in maternal and newborn care	Cloud Computing for Large-Scale Nursing Data Analysis	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 51

CLOUD COMPUTING FOR LARGE-SCALE NURSING DATA ANALYSIS

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Introduction

Cloud computing offers significant advantages for large-scale data analysis in nursing research. It provides scalable resources, advanced analytical tools, and enhanced collaboration capabilities, enabling researchers to handle vast amounts of data efficiently. This chapter explores how cloud computing supports large-scale nursing data analysis, highlighting its benefits, challenges, and best practices. The use of cloud-based platforms and tools can facilitate the management and interpretation of large datasets, leading to more informed decision-making and improved patient care.

1. Benefits of Cloud Computing for Large-Scale Data Analysis

1.1 Scalability

Cloud computing platforms offer scalable resources that can be adjusted based on the size and complexity of the data. This scalability allows researchers to handle large datasets without the need for substantial on-premises infrastructure investment.

Table 1: Comparison of On-Premises vs. Cloud-Based Scalability

Feature	On-Premises Infrastructure	Cloud-Based Infrastructure
Resource Scalability	Limited by hardware capacity	Dynamic, based on demand
Initial Investment	High	Low
Cost Management	Fixed costs	Pay-as-you-go
Upgrades and Maintenance	Manual and costly	Automatic and included

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
32	Mr. Nitin Dixit	Innovation and challenges in maternal and newborn care	Real-Time Monitoring and Patient Care Through Cloud Technologies	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 52

REAL-TIME MONITORING AND PATIENT CARE THROUGH CLOUD TECHNOLOGIES

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Introduction

The integration of cloud technologies into healthcare has introduced transformative advancements, particularly in real-time monitoring and patient care. By harnessing the power of cloud computing, healthcare providers can access, analyze, and act upon patient data in real time, significantly improving patient outcomes and optimizing care processes. This chapter explores how cloud technologies facilitate real-time monitoring and patient care, examining the benefits, challenges, and future directions of this integration. It includes detailed discussions on various technologies, applications, and case studies that illustrate the impact of cloud-based solutions on modern healthcare.

1. Overview of Cloud Technologies in Healthcare

1.1 Cloud Computing Fundamentals

Cloud computing involves delivering computing services—such as servers, storage, databases, networking, software, and analytics—over the internet ("the cloud"). It allows organizations to avoid owning and maintaining physical data centers and infrastructure. Instead, they can access these resources on a pay-as-you-go basis from cloud service providers (Marston et al., 2011).

Key Cloud Service Models:

- **Infrastructure as a Service (IaaS):** Provides virtualized computing resources over the internet.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
33	Mr. Nitin Dixit	Innovation and challenges in maternal and newborn care	Interoperability and Integration of Nursing Data with Cloud Solutions	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 53

INTEROPERABILITY AND INTEGRATION OF NURSING DATA WITH CLOUD SOLUTIONS

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Introduction

The integration of nursing data with cloud solutions represents a significant advancement in healthcare technology. It enables the seamless exchange of information across diverse systems and platforms, enhancing the efficiency and effectiveness of nursing care. This chapter explores the concepts of interoperability and integration within the context of nursing data and cloud solutions, discussing the benefits, challenges, and future directions of these technologies.

1. Understanding Interoperability in Nursing

1.1 Definition and Importance

Interoperability refers to the ability of different systems and organizations to work together and exchange information effectively. In nursing, interoperability is crucial for ensuring that patient data is accessible, accurate, and usable across various healthcare settings (McGonigle & Mastrian, 2018).

Benefits of Interoperability:

- **Improved Patient Care:** Facilitates the exchange of comprehensive patient information, leading to more coordinated and personalized care.
- **Enhanced Efficiency:** Reduces redundancy and streamlines workflows by enabling seamless data sharing.
- **Better Outcomes:** Supports evidence-based practices and data-driven decision-making.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
34	Mr. Sourabh Kumar Sharma	Innovation and challenges in maternal and newborn care	Cloud-Based Electronic Health Records (EHR) and Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 54

CLOUD-BASED ELECTRONIC HEALTH RECORDS (EHR) AND NURSING

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Introduction

The advent of cloud computing has revolutionized many industries, including healthcare. Cloud-based Electronic Health Records (EHR) systems offer new opportunities for improving nursing practice by providing scalable, flexible, and accessible solutions for managing patient data. This chapter explores the impact of cloud-based EHR systems on nursing, focusing on their benefits, challenges, implementation strategies, and future trends.

1. Overview of Cloud-Based EHR Systems

1.1 Definition and Key Features

Cloud-based EHR systems store and manage patient health information on remote servers accessed via the internet. Unlike traditional on-premises EHR systems, cloud-based solutions offer several distinct advantages, including scalability, cost-effectiveness, and accessibility.

Key Features of Cloud-Based EHR Systems:

- **Data Accessibility:** Access patient records from any location with internet connectivity.
- **Scalability:** Adjust resources and storage based on the needs of the healthcare organization.
- **Cost Efficiency:** Reduce upfront costs associated with purchasing and maintaining hardware.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
35	Mr. Vineet Shrivastava	Innovation and challenges in maternal and newborn care	Telehealth and Remote Patient Monitoring Using Cloud Computing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 55

TELEHEALTH AND REMOTE PATIENT MONITORING USING CLOUD COMPUTING

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Abstract

This paper explores the integration of cloud computing with telehealth and remote patient monitoring (RPM). It examines how cloud-based technologies enhance telehealth services, facilitate efficient remote monitoring, and improve patient outcomes. The paper highlights the benefits, challenges, and future directions of using cloud computing in these areas.

Introduction

The advent of cloud computing has revolutionized various fields, including healthcare. Telehealth and remote patient monitoring (RPM) have emerged as critical components in modern healthcare, enabling providers to deliver care more effectively and patients to manage their health remotely. This paper investigates the role of cloud computing in advancing these technologies, focusing on their benefits, challenges, and implications for the future of healthcare.

Telehealth and Remote Patient Monitoring

Telehealth refers to the delivery of healthcare services through digital communication technologies, such as video conferencing and mobile apps. Remote patient monitoring (RPM) involves the use of electronic devices to collect and transmit patient health data to healthcare providers. Both telehealth and RPM are increasingly supported by cloud computing, which provides scalable and flexible infrastructure for managing and analyzing health data.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
36	Mr. Vineet Shrivastava	Innovation and challenges in maternal and newborn care	Machine Learning and AI in CloudBased Nursing Research	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 56

MACHINE LEARNING AND AI IN CLOUD-BASED NURSING RESEARCH

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Abstract

Machine learning (ML) and artificial intelligence (AI) are transforming various domains of healthcare, including nursing research. Cloud computing enhances these technologies by providing scalable and accessible platforms for processing large volumes of data. This paper explores the integration of ML and AI within cloud-based nursing research, discussing their applications, benefits, challenges, and future trends. The integration of these technologies offers opportunities to improve patient outcomes, streamline workflows, and facilitate advanced data analysis in nursing research.

1. Introduction

The advent of machine learning (ML) and artificial intelligence (AI) has introduced profound changes across multiple sectors, with healthcare being a major beneficiary. Nursing research, in particular, stands to gain from these technologies due to their ability to handle vast amounts of data and uncover insights that traditional methods may miss. Cloud computing further augments these technologies by offering scalable and flexible infrastructure for data storage, processing, and analysis. This paper delves into the synergy between ML, AI, and cloud computing in the realm of nursing research, highlighting their applications, advantages, and challenges.

2. Overview of Machine Learning and AI

2.1 Machine Learning

Machine learning, a subset of AI, involves algorithms that enable computers to learn from and make predictions or decisions based on data. It can be classified into several types:

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
37	Mr. Shushant Kumar Jain	Innovation and challenges in maternal and newborn care	Big Data Analytics in Nursing Using Cloud Platforms	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 57

BIG DATA ANALYTICS IN NURSING USING CLOUD PLATFORMS

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Abstract

The integration of big data analytics with cloud computing platforms has revolutionized the field of nursing research and practice. Cloud platforms provide the infrastructure necessary to handle the vast amounts of data generated in healthcare settings, enabling advanced analytics and insights that can enhance patient care and streamline nursing operations. This paper explores the role of big data analytics in nursing, the advantages of using cloud platforms, the challenges faced, and the future trends in this evolving field.

1. Introduction

Big data analytics has emerged as a crucial component in the transformation of healthcare. The sheer volume, variety, and velocity of data generated in healthcare settings necessitate robust analytical tools and infrastructure. Cloud computing platforms offer scalable and flexible solutions for managing and analyzing this data, facilitating insights that can drive improvements in nursing practice and patient outcomes. This paper examines the intersection of big data analytics and cloud computing in nursing, highlighting their benefits, challenges, and future directions.

2. Understanding Big Data in Nursing

2.1 Definition and Characteristics

Big data refers to extremely large datasets that cannot be easily managed or analyzed using traditional data processing tools. In nursing, big data encompasses patient records, clinical notes, sensor data, and other health-related information.

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
38	Ms. Vishakha Yadav	Innovation and challenges in maternal and newborn care	Cloud Computing for Nursing Education and Training	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 58

CLOUD COMPUTING FOR NURSING EDUCATION AND TRAINING

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Abstract

Cloud computing has significantly impacted various sectors, including education and training. In nursing education, cloud computing provides a transformative platform for delivering content, facilitating collaboration, and simulating clinical environments. This paper explores how cloud computing enhances nursing education and training, focusing on its applications, benefits, challenges, and future trends. By leveraging cloud technologies, nursing programs can improve educational outcomes, streamline administrative processes, and provide students with advanced tools and resources.

1. Introduction

The advent of cloud computing has revolutionized many fields, including healthcare education. For nursing education, cloud computing offers innovative solutions for content delivery, simulation, and collaboration. Cloud platforms enable nursing schools and institutions to provide flexible and scalable learning environments, enhancing the educational experience for students and supporting faculty in delivering high-quality training.

2. Overview of Cloud Computing

2.1 Definition and Characteristics

Cloud computing involves delivering computing services over the internet, including storage, processing power, and software applications. It provides on-demand access to

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
39	Mr. Shyam Singh Rawat	Innovation and challenges in maternal and newborn care	Mobile Health Applications and Cloud Computing in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 59

MOBILE HEALTH APPLICATIONS AND CLOUD COMPUTING IN NURSING

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Abstract

The convergence of mobile health (mHealth) applications and cloud computing represents a transformative advancement in nursing practice and patient care. This paper explores how cloud computing enhances mobile health applications, focusing on their role in nursing. It covers the integration of mobile technologies with cloud platforms, the benefits they offer, and the challenges they face. By leveraging these technologies, nursing professionals can improve patient outcomes, streamline care processes, and enhance overall healthcare delivery.

1. Introduction

Mobile health (mHealth) applications have become a critical component of modern healthcare, offering tools for health monitoring, patient engagement, and data management. When combined with cloud computing, these applications can provide powerful, scalable solutions that enhance nursing practice. Cloud computing supports mHealth applications by providing robust data storage, processing capabilities, and real-time access to information, thus enabling more effective and efficient healthcare delivery.

2. Overview of Mobile Health Applications

2.1 Definition and Features

Mobile health applications are software programs designed to run on mobile devices such as smartphones and tablets. These applications support various aspects of

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
40	Dr. Manoj Bandil	Innovation and challenges in maternal and newborn care	Improving Clinical Decision Support Systems with Cloud Computing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 60

IMPROVING CLINICAL DECISION SUPPORT SYSTEMS WITH CLOUD COMPUTING

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Abstract

Clinical Decision Support Systems (CDSS) are critical tools in modern healthcare, aiding clinicians in making informed decisions by analyzing patient data and providing evidence-based recommendations. Cloud computing has the potential to significantly enhance CDSS by offering scalable, flexible, and powerful computing resources. This paper explores how cloud computing improves CDSS, focusing on its benefits, integration challenges, and future trends. By leveraging cloud technologies, healthcare organizations can enhance the efficiency, accuracy, and overall effectiveness of their decision support systems.

1. Introduction

Clinical Decision Support Systems (CDSS) are integral to enhancing the quality of care and optimizing clinical workflows. They provide clinicians with timely, relevant information and recommendations based on patient data and clinical guidelines. The integration of cloud computing into CDSS represents a significant advancement, offering scalable resources, advanced analytics, and real-time data access. This paper discusses how cloud computing can improve CDSS, the benefits it provides, and the challenges faced during integration.

2. Overview of Clinical Decision Support Systems

2.1 Definition and Purpose

Clinical Decision Support Systems (CDSS) are computer-based tools designed to assist clinicians in making informed decisions about patient care. They provide

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
41	Dr. Prashant Shrivastava	Innovation and challenges in maternal and newborn care	Patient Engagement and Empowerment through Cloud Technologies	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 61

PATIENT ENGAGEMENT AND EMPOWERMENT THROUGH CLOUD TECHNOLOGIES

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Abstract

Patient engagement and empowerment are central to modern healthcare, focusing on involving patients in their care and enabling them to make informed decisions about their health. Cloud technologies offer innovative solutions to enhance patient engagement and empowerment by providing accessible, real-time information and tools for managing health. This paper explores how cloud computing transforms patient engagement and empowerment, the benefits it offers, challenges encountered, and future directions. By leveraging cloud technologies, healthcare providers can improve patient outcomes, enhance communication, and foster a more collaborative healthcare environment.

1. Introduction

Patient engagement and empowerment have become critical components in achieving better health outcomes and improving the quality of care. Engaged and empowered patients are more likely to adhere to treatment plans, make informed decisions, and actively participate in their healthcare. Cloud computing technologies play a pivotal role in enhancing these aspects by offering scalable, flexible, and accessible solutions. This paper examines how cloud technologies contribute to patient engagement and empowerment, highlighting their benefits, challenges, and future prospects.

2. Understanding Patient Engagement and Empowerment

2.1 Definition and Importance

Patient Engagement refers to the active involvement of patients in their healthcare decisions and management. It encompasses a range of activities, including accessing health information, participating in treatment decisions, and communicating with healthcare providers (Hibbard & Greene, 2013).

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Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
42	Mr. Shyam Babu	Innovation and challenges in maternal and newborn care	Cost-Benefit Analysis of Cloud Adoption in Nursing Research	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 62

COST-BENEFIT ANALYSIS OF CLOUD ADOPTION IN NURSING RESEARCH

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Abstract

The adoption of cloud computing in nursing research offers numerous potential benefits, including enhanced data management, scalability, and collaborative opportunities. However, it also involves various costs and challenges that must be carefully evaluated. This paper provides a comprehensive cost-benefit analysis of cloud adoption in nursing research, highlighting the advantages, financial implications, and strategic considerations involved. By examining case studies, industry reports, and expert opinions, the paper aims to offer a balanced perspective on the value of cloud computing in advancing nursing research.

1. Introduction

Cloud computing has emerged as a transformative technology in various fields, including nursing research. It offers numerous benefits, such as improved data accessibility, collaboration, and scalability, which can enhance research capabilities and outcomes. However, the transition to cloud-based solutions also involves significant costs and challenges. This paper presents a detailed cost-benefit analysis of cloud adoption in nursing research, exploring both the advantages and the financial and operational considerations involved.

2. Overview of Cloud Computing in Nursing Research

2.1 Definition and Benefits

- **Cloud Computing** refers to the delivery of computing services—such as storage, processing power, and software—over the internet. For nursing research, cloud computing provides:

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
43	Ms. Archana Tomar	Innovation and challenges in maternal and newborn care	Case Studies of Cloud Computing Implementation in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 63

CASE STUDIES OF CLOUD COMPUTING IMPLEMENTATION IN NURSING

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Abstract

Cloud computing has significantly transformed healthcare practices by offering scalable, flexible, and cost-effective solutions. In nursing, the implementation of cloud computing has improved data management, collaboration, and patient care. This paper presents several case studies that illustrate the impact of cloud computing in nursing settings. Each case study highlights the specific challenges, benefits, and outcomes associated with cloud adoption. By examining these real-world examples, the paper aims to provide valuable insights into the practical applications and effectiveness of cloud computing in nursing.

1. Introduction

Cloud computing offers various advantages for nursing, including enhanced data management, improved collaboration, and better patient care. By leveraging cloud-based solutions, healthcare organizations can streamline operations and improve clinical outcomes. This paper explores several case studies of cloud computing implementation in nursing, focusing on how these technologies have been applied, the benefits realized, and the challenges encountered.

2. Case Study 1: Cloud-Based Patient Records System in a Community Health Clinic

2.1 Overview

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
44	Ms. Archana Acharya	Innovation and challenges in maternal and newborn care	Regulatory and Ethical Considerations in Cloud-Based Nursing Research	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 64

REGULATORY AND ETHICAL CONSIDERATIONS IN CLOUD-BASED NURSING RESEARCH

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Abstract

Cloud computing has revolutionized nursing research by providing scalable, flexible, and cost-effective solutions. However, the adoption of cloud technologies in nursing research raises significant regulatory and ethical considerations. This paper explores the key regulatory and ethical challenges associated with cloud-based nursing research, including data privacy, security, compliance with regulations, and ethical issues related to consent and data use. By analyzing these considerations, the paper aims to provide a comprehensive understanding of the legal and ethical landscape of cloud computing in nursing research.

1. Introduction

Cloud computing has become an integral part of nursing research, offering advantages such as enhanced data management, improved collaboration, and scalability. However, the use of cloud-based solutions introduces complex regulatory and ethical issues that must be carefully managed. This paper examines the regulatory and ethical considerations related to cloud computing in nursing research, highlighting key concerns and offering recommendations for addressing these challenges.

2. Regulatory Considerations

2.1 Data Privacy Regulations

- **Data privacy regulations** are critical in ensuring that personal and sensitive information is protected. Key regulations include:

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
45	Dr. Prabha Dixit	Innovation and challenges in maternal and newborn care	Collaboration and Knowledge Sharing among Nurses via Cloud Platforms	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 65

COLLABORATION AND KNOWLEDGE SHARING AMONG NURSES VIA CLOUD PLATFORMS

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Abstract

Cloud computing has significantly transformed how healthcare professionals, including nurses, collaborate and share knowledge. Cloud platforms offer scalable and flexible solutions that enhance communication, data sharing, and collaborative learning among nurses. This paper explores the role of cloud platforms in facilitating collaboration and knowledge sharing in nursing, examines the benefits and challenges associated with their use, and provides case studies demonstrating practical applications. By analyzing these aspects, the paper aims to highlight the impact of cloud technology on nursing practice and education.

1. Introduction

The nursing profession requires continuous collaboration and knowledge sharing to improve patient care, support professional development, and address complex clinical challenges. Cloud computing has emerged as a powerful tool in facilitating these processes by offering platforms that enable real-time communication, data sharing, and collaborative learning. This paper investigates how cloud platforms contribute to nursing collaboration and knowledge sharing, exploring the benefits, challenges, and practical applications of these technologies.

2. Cloud Platforms for Nursing Collaboration

2.1 Features of Cloud-Based Collaboration Tools

Cloud-based collaboration tools offer several features that enhance nursing practice:

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46	Ms. Archana Acharya	Innovation and challenges in maternal and newborn care	Disaster Recovery and Business Continuity in Nursing with Cloud Computing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 66

DISASTER RECOVERY AND BUSINESS CONTINUITY IN NURSING WITH CLOUD COMPUTING

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Abstract

Disaster recovery and business continuity are critical for maintaining healthcare services, particularly in nursing, where data integrity and availability are essential for patient care. Cloud computing offers robust solutions for disaster recovery and business continuity by providing scalable, flexible, and reliable infrastructure. This paper explores how cloud computing supports disaster recovery and business continuity in nursing, examining its benefits, challenges, and best practices. Through a detailed analysis, the paper aims to highlight how cloud technologies can enhance resilience and preparedness in nursing environments.

1. Introduction

Disaster recovery and business continuity planning are vital for maintaining healthcare services during and after disruptive events. For nursing, ensuring continuous access to patient data, maintaining operational workflows, and safeguarding against data loss are crucial. Cloud computing provides a powerful framework for disaster recovery and business continuity, offering solutions that help healthcare organizations manage risks and recover swiftly from disruptions. This paper explores the role of cloud computing in supporting these critical functions in nursing.

2. Cloud Computing for Disaster Recovery

2.1 Key Features of Cloud-Based Disaster Recovery

Cloud-based disaster recovery (DR) solutions offer several features that enhance recovery capabilities:

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
47	Ms. Rashmi Pndey	Innovation and challenges in maternal and newborn care	Cloud-Based Solutions for Chronic Disease Management in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 67

CLOUD-BASED SOLUTIONS FOR CHRONIC DISEASE MANAGEMENT IN NURSING

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Abstract

Chronic diseases are leading causes of mortality and morbidity worldwide, posing significant challenges for healthcare systems. Effective management of chronic diseases requires continuous monitoring, timely interventions, and personalized care, which can be resource-intensive and complex. Cloud-based solutions offer innovative approaches to enhance chronic disease management in nursing by providing scalable, flexible, and integrated platforms for data collection, analysis, and patient engagement. This paper explores the role of cloud computing in chronic disease management, focusing on its benefits, implementation strategies, challenges, and case studies.

1. Introduction

Chronic diseases such as diabetes, cardiovascular diseases, and chronic respiratory diseases require long-term management and monitoring. Nursing plays a crucial role in the ongoing care of patients with chronic conditions, necessitating efficient tools and systems to support patient management. Cloud-based solutions provide a transformative approach to chronic disease management by leveraging technology to improve data collection, patient monitoring, and care coordination. This paper examines the potential of cloud computing to enhance nursing practices in managing chronic diseases.

2. Overview of Chronic Disease Management

2.1 Challenges in Chronic Disease Management

Chronic disease management involves several challenges:

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
48	Mr. Madhukar Dubey	Innovation and challenges in maternal and newborn care	Predictive Analytics in Nursing Using Cloud-Based Tools	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

ISBN: 978-81-966844-7-1

CHAPTER 68

PREDICTIVE ANALYTICS IN NURSING USING CLOUD-BASED TOOLS

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Abstract

Predictive analytics has the potential to transform nursing by providing insights that can improve patient outcomes, enhance operational efficiency, and optimize resource allocation. Cloud-based tools facilitate the implementation of predictive analytics by offering scalable, flexible, and cost-effective solutions for data storage, processing, and analysis. This paper explores the application of predictive analytics in nursing, focusing on the benefits, challenges, implementation strategies, and case studies of cloud-based tools. Through a detailed analysis, the paper aims to highlight how cloud-based predictive analytics can revolutionize nursing practices and healthcare delivery.

1. Introduction

Predictive analytics involves the use of statistical techniques and machine learning algorithms to analyze historical data and make predictions about future events. In nursing, predictive analytics can be used to predict patient outcomes, identify high-risk patients, and optimize care processes. The integration of cloud-based tools enhances the capabilities of predictive analytics by providing the necessary infrastructure for data storage, processing, and analysis. This paper explores the application of predictive analytics in nursing using cloud-based tools, examining the benefits, challenges, implementation strategies, and case studies.

2. Overview of Predictive Analytics

2.1 Definition and Techniques

Predictive analytics uses various techniques to analyze historical data and make predictions about future outcomes. These techniques include:

Sr. No.	Name of the Teacher	Title of the book	Title of the paper	National/ International	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
49	Mr. Madhukar Dubey	Innovation and challenges in maternal and newborn care	Future Innovations and Directions for Cloud Computing in Nursing	National	2024	ISBN: 978-81-966844-7-1	ITM, Gwalior	Xoffencer International Book Publication House, Gwalior

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CHAPTER 69

FUTURE INNOVATIONS AND DIRECTIONS FOR CLOUD COMPUTING IN NURSING

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Abstract

Cloud computing has revolutionized the healthcare sector by providing scalable, flexible, and cost-effective solutions for data storage, processing, and analysis. In nursing, cloud computing offers significant opportunities for improving patient care, enhancing operational efficiency, and fostering innovation. This paper explores future innovations and directions for cloud computing in nursing, focusing on emerging technologies, potential applications, and strategies for overcoming challenges. Through a detailed analysis, the paper aims to provide insights into how cloud computing can shape the future of nursing practice and healthcare delivery.

1. Introduction

The integration of cloud computing in nursing has brought about significant improvements in data management, patient care, and operational efficiency. As technology continues to evolve, new innovations and directions are emerging that can further enhance the capabilities of cloud computing in nursing. This paper explores these future innovations and directions, examining the potential applications and benefits of emerging technologies, such as artificial intelligence (AI), machine learning (ML), the Internet of Things (IoT), and blockchain, in the context of cloud computing in nursing.

2. Emerging Technologies in Cloud Computing for Nursing

2.1 Artificial Intelligence and Machine Learning

AI and ML are set to revolutionize cloud computing in nursing by enabling more advanced data analysis and decision-making capabilities. These technologies can be

S.N.	Name Of The Teacher	Title Of The Book/Chapters Published	Title Of The Paper	Title Of The Proceedings Of The Conference	Name Of The Conference	National / International	Year Of Publication	ISBN Number Of The Proceeding	Affiliating Institute At The Time Of Publication	Name Of The Publisher
50	Dr Ankit Gupta	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	The Study Of Employee Welfare Measures In Aim India Private Limited	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	SUSPIRE 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



Dr. Preeti Singh has an MBA and Ph.D. in Management, demonstrating her passion for education. Her extensive 17-year teaching journey has endowed her with a profound understanding of the intricacies of the subject. She has published 15 papers in national and international journals and 6 case studies in The Case Center in the last few years. Her participation in conferences and academic programmes shows her interest beyond research..



Dr. Prashant Sharma has teaching experience of more than 13 years. He has completed his Ph.D. in management. He is actively engaged in research and consultancy in the area of Finance and Marketing. He has published more than 25 research paper and articles in national and international journals. Dr. Sharma is also a visiting faculty of ICAI and other reputed institute.



Mr. Ravi Kant Vajpai holds a multifaceted array of degrees, including an MBA, MSc. (CS), LLB, MCSE, and CCNA. His extensive knowledge and 15 years of teaching experience in both management and technology brings a wealth of practical insights and academic rigor to the subject matter, making this book an invaluable resource for students, professionals, and enthusiasts alike.



Dr. Ankit Gupta has done his PhD, M.B.A. and M.Com. Dr. Ankit has more than 12 years of teaching and research experience.. During his teaching period, he has attended and presented more than 42 Research Papers at various National and International Conferences and seminars organized by leading institutions in India. Dr. Ankit has published his research work at the national and international level and has more than 25 research papers to his credit in National and International journals.



Mr. Harshit Sinha holds an M. Com from Jiwaji University and is pursuing a Ph.D. in Commerce. His impressive academic journey includes UGC-NET qualification. Beyond teaching, he's presented various research papers at national and international conferences, contributing to SCOPUS journals and esteemed publications. His dedication to advancing Management through rigorous research and academic engagement is evident."



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Dr. Preeti Singh
Dr. Prashant Sharma
Mr. Ravi Kant Vajpai
Dr Ankit Gupta
Mr. Harshit Sinha



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CHAPTER-3

THE STUDY ON EMPLOYEE WELFARE MEASURES IN AIM INDIA PRIVATE LTD

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ABSTRACT:

This study was undertaken with such a task in mind and it aims at unearthing the satisfaction level of the employees towards welfare measures provided in AIM INDIA PRIVATE LIMITED, that is prevalent in the organization where the study was conducted. Since organizations exist to achieve goals. The degree of success that individual employees have in reaching their individual goals is important in determining organizational effectiveness. The assessment of how successful employees have been at meeting their individual goals, therefore, becomes a critical part of Human Resource Management (HRM). This leads us to the topic of Employees Welfare Measures (EWM).

This project aims at knowing the Welfare System. This project seeks to understand the welfare system. In this project, the organizational welfare policies and the working environment have been researched. It also seeks to learn how the staff members feel about the management. This survey is conducted within the company. The information was gathered by using a questionnaire-based approach. Sequential analyses of factor and tabulations of data collections were performed, and the tabulations were accompanied by interpretations. This report includes a conclusion and recommendations for enhancing this system inside the company.

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51	Dr Manoj Mishra	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Importance of Communication for the growth of business market	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	SUSPIRE 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



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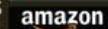


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CHAPTER-6 IMPORTANCE OF COMMUNICATION FOR THE GROWTH OF BUSINESS MARKET

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ABSTRACT:

The capacity to provide and absorb a variety of types of information is referred to as communication ability. The author needs to advocate for the value of communication in corporate relationships in this study. Even while these abilities may be common in your day-to-day work, the capacity for clear, efficient communication sets itself apart and is highly regarded. This study aims to emphasise and clarify the significance of effective communication in the management of corporate growth. Additionally, the advantages of good staff collaboration in creating and implementing change plans are emphasised. This article also defines the goals and communication standards for each stage of the change process. The different drivers and benefits of business communication growth are also examined. Additionally, the impact of business communication, communication in business organisations, and various forms of business communication are covered in this essay. Communication is essential for fostering trust within a business. The potential impact of this study is that it will make people more aware of the value of communication and how it may assist any type of organisation grow via excellent communication.

Keywords: business communication, business organization, downward communication, management, organizational communication, upward communication.



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52	Dr Preeti Singh	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Empirical Study On Employee Work-Life Balance And Its Impact On Employee Commitments In The Context Of Infosys Ltd.	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	Itm, Gwalior	Book Rivers



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CHAPTER-8 EMPIRICAL STUDY ON EMPLOYEE WORK-LIFE BALANCE AND ITS IMPACT ON EMPLOYEE COMMITMENT IN THE CONTEXT OF INFOSYS LTD

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ABSTRACT:

As the IT sector is booming in India and the employees working in IT sector are facing new challenges in the new Hybrid working mode after the Covid-19 pandemic. So, this research paper identifies the impact of Work-life Balance (WLB) on Employee commitment(EC) of IT professionals in India and taking the demographic factors like Age, Gender and Experience into consideration. And after the analysis of data collected from 152 respondents it was found that gender of an employee and Work-life Balance (WLB) have significant impact in Employee Commitment (EC) of the employees.

Work-Life Balance:

According to (Naim F. and Lenka U, 2018), the conceptual understanding and related framework of work-life balance are more extensive than one might think. Work-life balance is a simple equilibrium that one must achieve through management in order to



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53	Dr Prashant Sharma,	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	A Comparative Study Of Selected Public And Private Banks In India	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	Itm, Gwalior	Book Rivers



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CHAPTER-9 A COMPARATIVE STUDY OF SELECTED PUBLIC AND PRIVATE SECTOR BANKS IN INDIA

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ABSTRACT:-

In banks, financial performance plays a key role. Financial performance is important for making financial decisions related to planning and control. Thus, it forms the basis one of paramount crucial for taking financial decisions effectively. The comparative analysis of the financial performance of selected Indian public and private sector banks from 2015-16 to 2021-2022 is included in this research paper. Many key parameters such as CAR, ROE ratio, ROA ratio, NIM ratio, and credit deposit ratio have been used in this study. In the research study, SBI, PNB, ICICI, and axis banks have been selected as a sample. An Independent sample t-test has been used to analyze the ratios of the selected banks. Microsoft excel was used for this research study. The study is based on secondary data, and data has been taken from only 7 financial year periods. This study finds that private banks generate more profit than public banks.



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54	Prashant Sharma	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Green Cloud Computing : Strategies, Technologies And Future Trends For Achieving Sustainable Cloud Computing	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	Itm, Gwalior	Book Rivers



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CHAPTER-12 GREEN CLOUD COMPUTING: STRATEGIES, TECHNOLOGIES AND FUTURE TRENDS FOR ACHIEVING SUSTAINABLE AND ENVIRONMENTALLY RESPONSIBLE CLOUD COMPUTING

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ABSTRACT:-

Green cloud computing is an emerging field that aims to reduce the environmental impact of cloud computing by using energy-efficient practices and renewable energy sources. This review paper provides an overview of the concept of green cloud computing and its benefits, challenges, strategies, and technologies.

The paper presents 20 literature reviews on green cloud computing, highlighting the importance of energy efficiency, renewable energy sources, and carbon offsetting strategies in reducing energy consumption and associated costs. It also discusses the challenges faced by green cloud computing, such as the lack of standardization and limited availability of renewable energy sources.



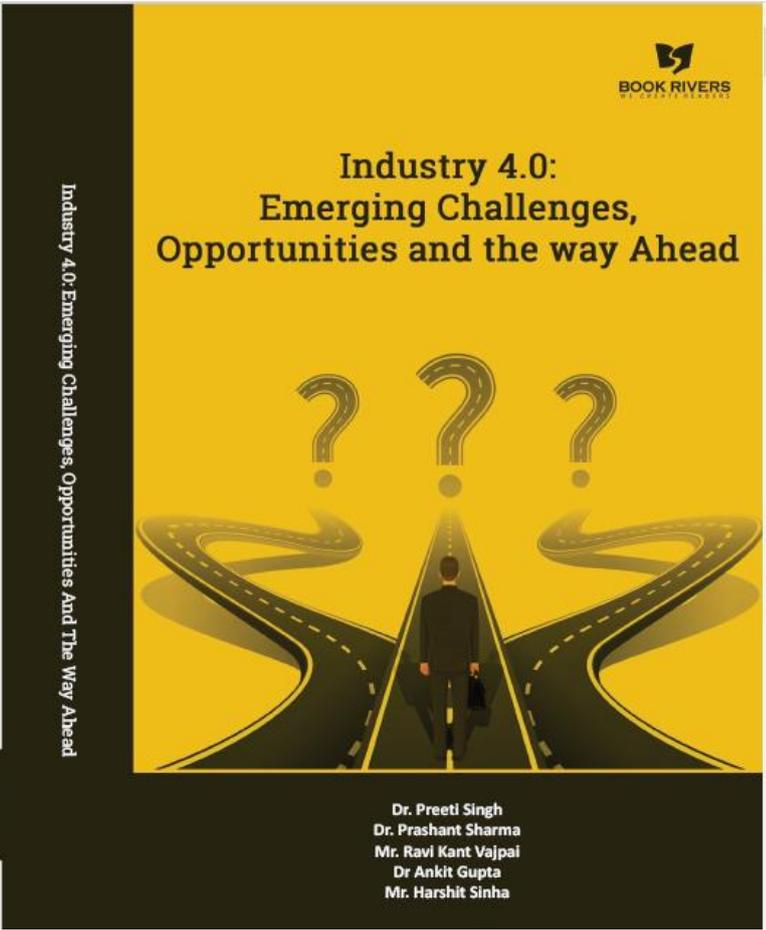
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55	Dr. Pradeep Yadav	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Artificial Intelligence - A Step To The Most Significant Change	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



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CHAPTER-19

A BIBLIOMETRIC ANALYSIS ON AGRICULTURE

4.0

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ABSTRACT:

The agriculture industry is facing several challenges like ever boosting food demand due to increasing population, lack of natural resources, seasonal variation, reduced productivity, food waste, poverty, complex supply chain, and huge market inefficiencies. To make agriculture sustainable and more productive, we need to adapt to the fourth industrial revolution in the agriculture sector. Agriculture is at the cusp of the fourth industrial revolution because it uses advanced technologies such as the internet of things, 3D printing, blockchain technology, automation, big data analysis in the farming sector, and agriculture operations. Agriculture 4.0 connects the real and virtual world for better productivity and efficiency. This study aims to find out the researches conducted in the agriculture sector in convergence with the industrial revolution 4.0 with the help of bibliometric analysis. It is a statistical method, which provides details about leading authors, journals, authors' affiliations, authors' citations, leading countries, co-authorship, and co-occurrences of keywords in a

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S.N	Name Of The Teacher	Title Of Book/Chapters Published	Title Of The Paper	Title Of Proceedings Of The Conference	Name Of The Conference	National / International	Year Of Publication	Isbn Number Of The Proceeding	Affiliating Institute At The Time Of Publication	Name Of The Publisher
57	Amit Kumar Tiwari,	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	A Literature review and research framework on supply chain management 4.0	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



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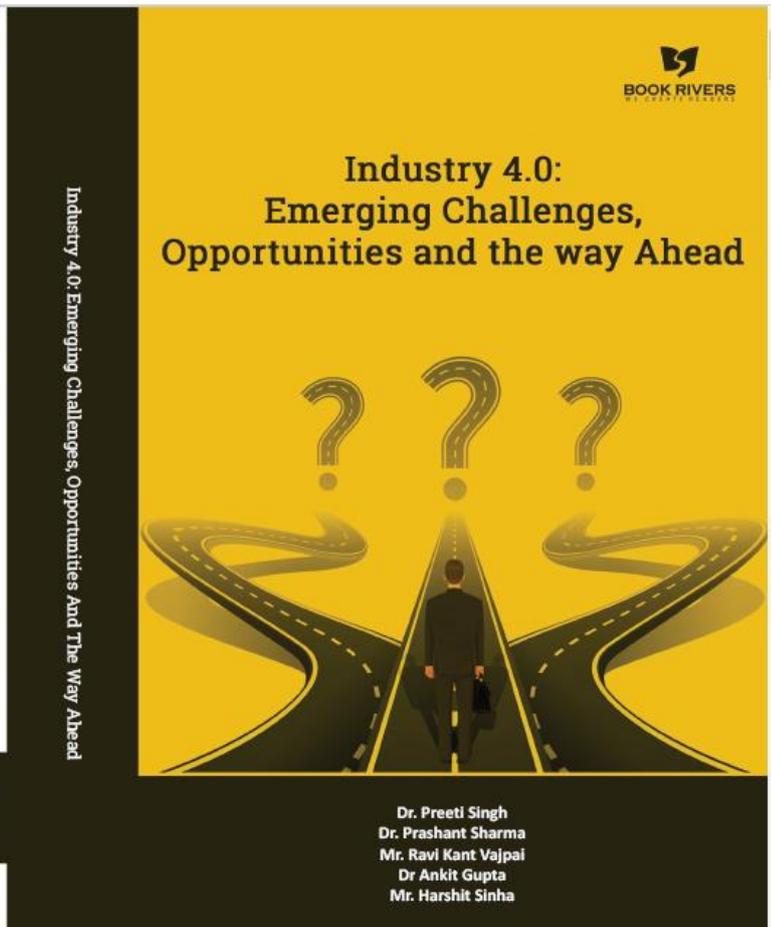
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Industry 4.0: Emerging Challenges, Opportunities and the way Ahead
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Dr. Prashant Sharma
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Dr Ankit Gupta
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CHAPTER-20

A LITERATURE REVIEW AND RESEARCH FRAMEWORK ON SUPPLY CHAIN MANAGEMENT 4.0

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ABSTRACT:

Supply chain management is constantly evolving. The business world is transitioning from one paradigm to the next. In the corporate sector, supply chain 4.0 is the most recent trend. This article examines and analyses the existing state-of-the-art literature on Supply Chain Management 4.0 (SCM 4.0) and the interaction between digital technologies and Supply Chain Management. A bibliometric study and a literature assessment of state-of-the-art publications in the relevant topic were done. The impact of emerging technology on various supply chain operations is examined in this research. In addition, the study establishes a foundation for future research and practice. Because it describes the pillar components for any supply chain change, the suggested work is valuable for both academics and practitioners. It also suggests a set of study questions that might be utilized as a foundation for the field's future research. This research presents a



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58	Amit Kumar Tiwari	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	A literature review on supply chain management barriers in manufacturing organization	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



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Dr. Prashant Sharma
Mr. Ravi Kant Vajpai
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CHAPTER-21

A LITERATURE REVIEW ON SUPPLY CHAIN MANAGEMENT BARRIERS IN MANUFACTURING ORGANIZATION

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ABSTRACT:

Objective of this study is to identify barrier of supply chain management (SCM) in manufacturing organization through systematic literature review of past ten years and identify most critical barrier which hinder the performance of supply chain. List of barrier identified by comprehensive literature review is presented here. This paper has identified 23 key SCM barriers which help industrial practitioners and academic experts to implement SCM. Nowadays manufacturing organizations are competing based of supply chain to supply chain rather than organization to organization. Effective supply chain management help organization to in securing his position in this competitive environment and improving organizations performance.

Keywords- supply chain management, literature review, Barrier.

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59	Dr. Pradeep Yadav	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Movie Match: Finding your perfect flick	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



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Dr. Prashant Sharma
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CHAPTER-22 MOVIE MATCH: FINDING YOUR PERFECT FLICK

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ABSTRACT:

Movie recommendation systems are computer programs or algorithms that suggest movies to users based on their past preferences or behavior. These systems use various approaches, including collaborative filtering, content-based filtering, or hybrid filtering, to provide personalized recommendations to users. Collaborative filtering uses past data on movie ratings or watch history to identify patterns and make recommendations based on the preferences of users with similar tastes. Content-based filtering recommends movies to users based on the similarities between the movies they have liked in the past and the movies they have not yet



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60	Dr. Preeti Singh	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	A study of logistics mechanism of Indian E-commerce companies	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



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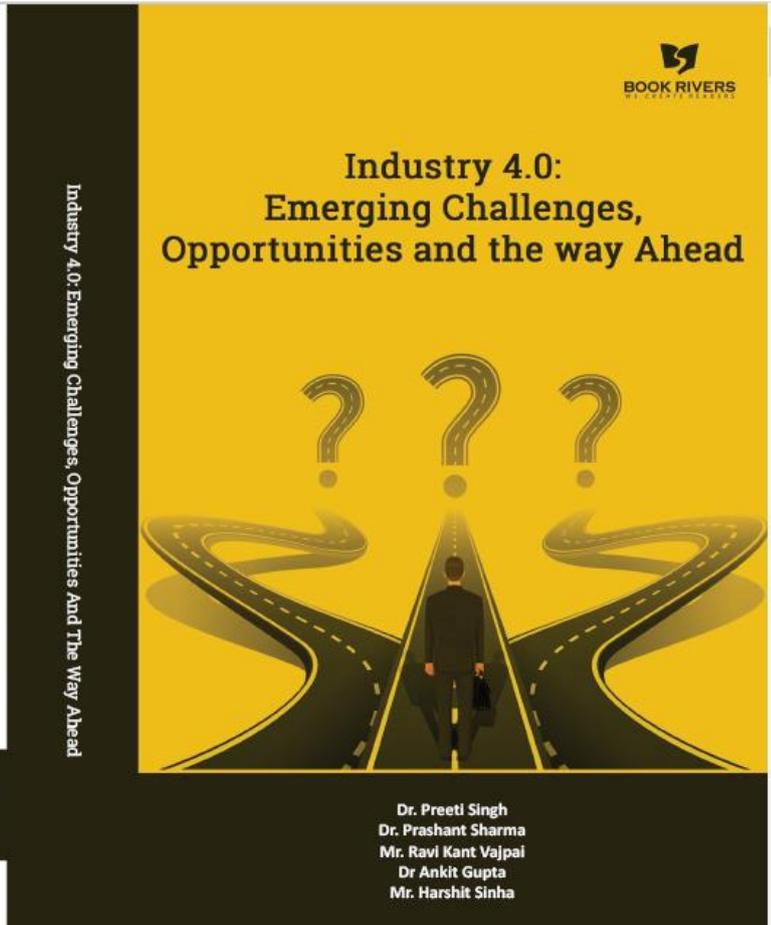
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CHAPTER-24

A STUDY OF LOGISTICS MECHANISM OF INDIA'S E-COMMERCE COMPANIES

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ABSTRACT:

E-commerce, which refers to the exchange of goods and services over computer networks like the Internet, is the best platform for conducting business in the information era. Through an electronic data exchange (EDI) on value-added networks, it was first made available in the 1960s. (VANS). With the creation of an online marketplace, it opened up a wide range of possibilities for business owners to grow their enterprises and compete successfully in the market. E-commerce is also generating revenue for trade-related services like warehousing and transportation. When discussing supply chain management, it is crucial to understand how it supports e-commerce. Without effective supply chain management, e-commerce businesses would be unable to operate. The job of supply chain management is essentially divided into three categories: Physical flow, Information flow and financial flow. Physical flow refers to the delivery of goods and services to the appropriate consumer at the appropriate time and location, as well as the collection of products from customers in the event of returns. Optimizing information flow is the process of letting consumers know how their orders are progressing. Financial flow refers to enabling online retailers to use more effective payment



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61	Dr. Ankit Gupta	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	A comprehensive investigation of the influential factors' impact on investment behaviour of retail investors in the Indian stock market from a behavioural perspective	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



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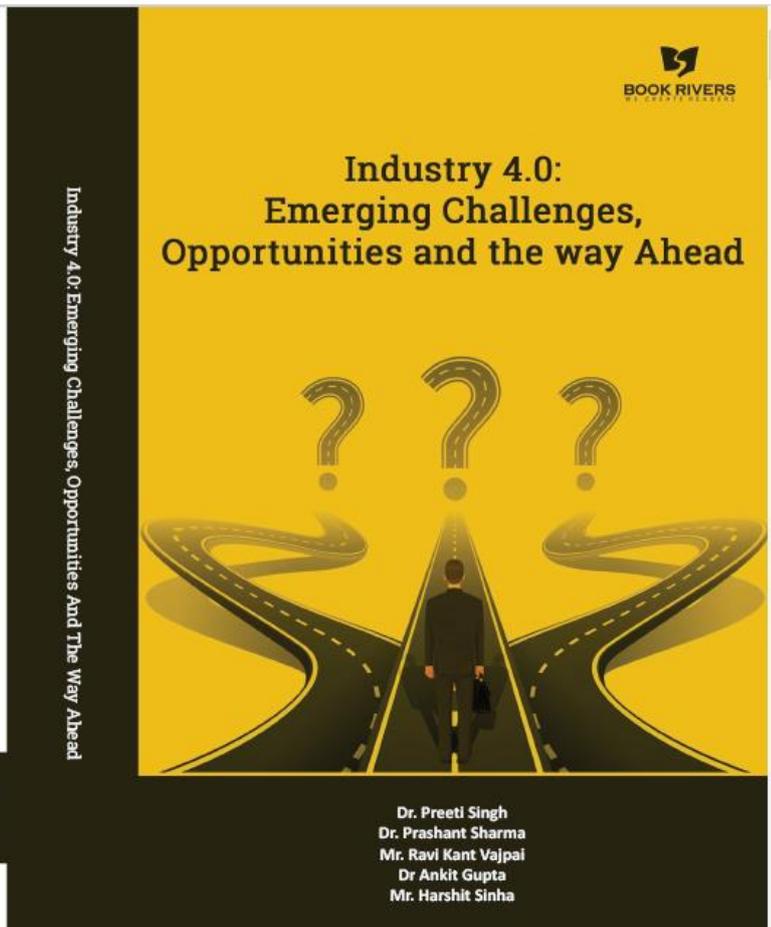


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CHAPTER-25 A COMPREHENSIVE INVESTIGATION OF THE INFLUENTIAL FACTORS' IMPACT ON THE INVESTMENT BEHAVIOUR OF RETAIL INVESTORS IN THE INDIAN STOCK MARKET FROM A BEHAVIOURAL PERSPECTIVE

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ABSTRACT:

Conventional financial theories, such as the Capital Asset Pricing Model, Efficient Market Hypothesis, and Modern Portfolio Theory, are predicated on the premise that markets exhibit efficiency and individuals engage in rational decision-making aimed at profit maximisation. Nevertheless, recent studies examining the conduct of individual investors have unveiled that their decision-making within the stock market is not solely guided by rationality. However, their investment choices are influenced by various factors. The primary aim of this research is to ascertain the diverse factors that exert an influence on the conduct of retail investors within the Indian stock market. The present study utilises Principal Component analysis as a methodology to discern the factors that exert influence on individual investment behaviour. The present study has effectively identified five notable factors that possess the capacity to impact the investment behaviour of retail



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62	Dr. Prashant Sharma	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	A study of consumer behaviour on perceived usefulness and awareness towards e-banking in Gwalior	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



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Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead



Industry 4.0: Emerging Challenges, Opportunities and the way Ahead



Dr. Preeti Singh
Dr. Prashant Sharma
Mr. Ravi Kant Vajpai
Dr Ankit Gupta
Mr. Harshit Sinha



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CHAPTER-31 A STUDY OF CONSUMER BEHAVIOUR ON PERCEIVED USEFULNESS AND AWARENESS TOWARDS E-BANKING SERVICES IN GWALIOR DISTRICT

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Student of MBA ITM, Gwalior

Dr. Prashant Sharma

Assistant Professor, ITM, Gwalior

ABSTRACT

Customer convenience is a core requirement of every industry, and using technology to meet this demand is a common practice. Technology has also had a big impact on financial organizations. The advent of internet technology has fundamentally changed how banks operate. In order for new approaches to be successfully used, it is crucial to promote awareness about the new technologies that are being developed. Although all banks currently offer electronic banking services, more research is needed to determine how well-informed and how widely used customers are with e-banking. The purpose of this study is to determine the level of acceptance and knowledge among Gwalior District bank customers. The information is collected from 100 bank customers of Gwalior District through the online questionnaire. Analysis of data is done through IBM SPSS 21, by using descriptive analysis, multiple response analysis.

INTRODUCTION

The terms "Internet banking" and "online banking" refer to the provision of banking services via the Internet and the electronic modification of each transaction. Each financial institution has a website for providing all information, and using ICT for quick customer communication is beneficial to both bank executives and



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63	Mr. Ravi Kant Vajpai	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Ethics And Role Of Csr -A Strategic Tool For Sustainable Growth With Special References To Telecom	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov, 2023	978-93-5842-178-1	ITM, Gwalior	Book Rivers



Dr. Preeti Singh has an MBA and Ph.D. in Management, demonstrating her passion for education. Her extensive 17-year teaching journey has endowed her with a profound understanding of the intricacies of the subject. She has published 15 papers in national and international journals and 6 case studies in The Case Center in the last few years. Her participation in conferences and academic programmes shows her interest beyond research..



Dr. Prashant Sharma has teaching experience of more than 13 years. He has completed his Ph.D. in management. He is actively engaged in research and consultancy in the area of Finance and Marketing. He has published more than 25 research paper and articles in national and international journals. Dr. Sharma is also a visiting faculty of ICAI and other reputed institute.



Mr. Ravi Kant Vajpai holds a multifaceted array of degrees, including an MBA, MSc. (CS), LLB, MCSE, and CCNA. His extensive knowledge and 15 years of teaching experience in both management and technology brings a wealth of practical insights and academic rigor to the subject matter, making this book an invaluable resource for students, professionals, and enthusiasts alike.



Dr. Ankit Gupta has done his PhD, M.B.A. and M.Com. Dr. Ankit has more than 12 years of teaching and research experience.. During his teaching period, he has attended and presented more than 42 Research Papers at various National and International Conferences and seminars organized by leading institutions in India. Dr. Ankit has published his research work at the national and international level and has more than 25 research papers to his credit in National and International journals.



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INDUSTRY 4.0: EMERGING CHALLENGES, OPPORTUNITIES AND THE WAY AHEAD

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ETHICS AND ROLE OF CSR -A STRATEGIC TOOL FOR SUSTAINABLE GROWTH WITH SPECIAL REFERENCES TO TELECOM COMPANIES IN INDIA

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ABSTRACT:

Telecom sector must work to present themselves as highly socially responsible businesses in an extremely competitive global market. Participating actively in socially positive initiatives offers the organizational additional benefits. The main focus of the paper is to study of CSR initiatives among mobile telecommunications companies in India as strategic tool for sustainable development. Additionally, this study identifies the driving forces behind and most significant influencing variables in their concentration of involvement in CSR. Generally, involvements in CSR activities are inspired by several construct motivational factors and follow the agency theory assumption. One of the primary motivating factors is the belief that CSR can increase long term profitability and sustainability of the company as well as enhance the reputation of the organization.

Keywords: Ethics, Corporate social responsibility, strategic tool, sustainable development, telecom sector.

INTRODUCTION

Corporate social responsibility, basically is an endeavor by a company to evaluate and accept responsibility for its effects on the

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64	Mr. Harshit Sinha	INDUSTRY 4.0: EMERGING CHALLENGES, OPPORTUNITIES AND THE WAY AHEAD	A STUDY OF EMPLOYEE SATISFACTION AND ITS IMPACT ON EMPLOYEE RETENTION	national	Nov, 2023	ISBN: 978-93-5842-178-1	ITM Gwalior	Book Rivers



Dr. Preeti Singh has an MBA and Ph.D. in Management, demonstrating her passion for education. Her extensive 17-year teaching journey has endowed her with a profound understanding of the intricacies of the subject. She has published 15 papers in national and international journals and 6 case studies in The Case Center in the last few years. Her participation in conferences and academic programmes shows her interest beyond research..



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Industry 4.0: Emerging Challenges, Opportunities and the way Ahead



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CHAPTER-4

A STUDY OF EMPLOYEE SATISFACTION AND ITS IMPACT ON EMPLOYEE RETENTION

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ABSTRACT:

In recent years, management, social psychology, and practical operations have all paid close attention to the academic idea of employee retention and satisfaction. This study examines more than ten years' worth of research on the causes and effects of employee retention and satisfaction. This research study aims to show the impact of Employee Retention (ER) on Employee Satisfaction (ES). A valid and dependable indicator of Employee Retention(ER) is satisfaction. The study's design is Causal & Descriptive. For data analysis/results the SPSS 20.0 is used. For this, the study uses a descriptive research design. In conclusion, the findings of the study suggest that there was not significant impact of employee satisfaction on employee retention.

Keywords: Employees satisfaction, Employee retention, Human resource, Regression.

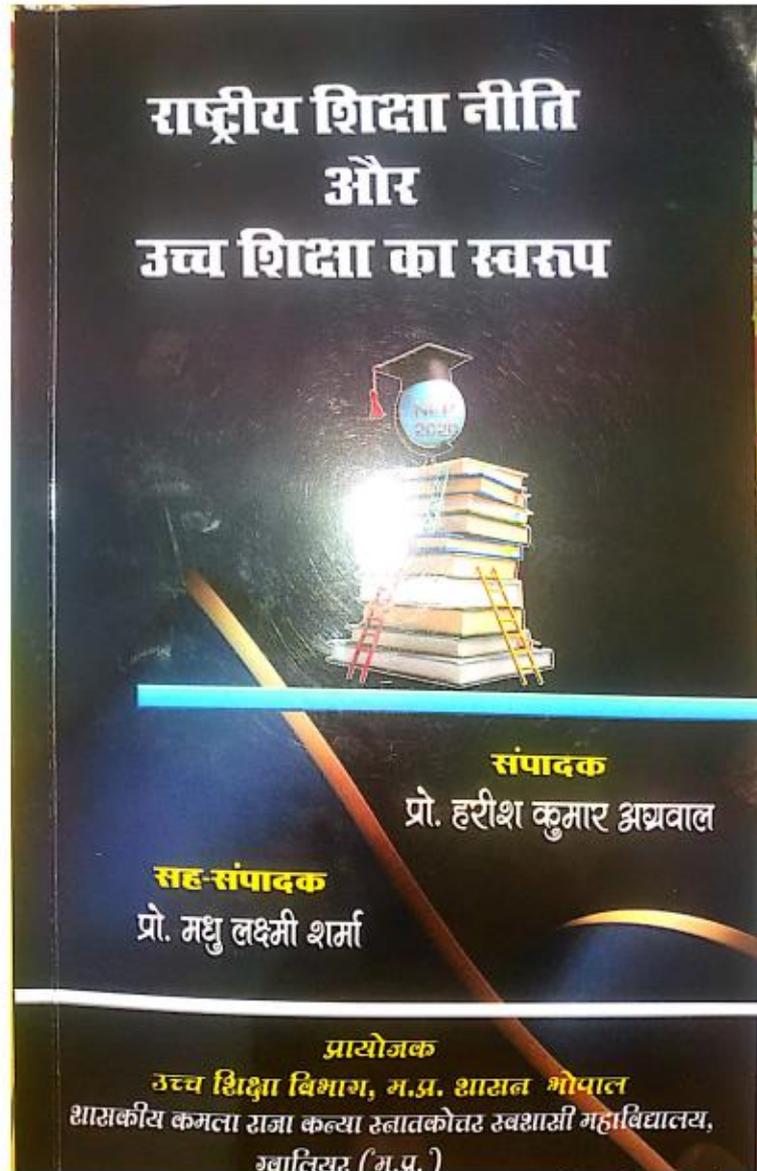
INTRODUCTION

Employee satisfaction is a term that is used to describe if employees are happy and fulfilling their desires and needs at work. The crucial factor with employee satisfaction is that satisfied employees must do the employee and make the contributions that the employer needs.




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65	Dr. Manoj Mishra	Rastriya Siksha Neeti Aur Uchch Siksha Ka Swaroop	Prospects of Teacher Education within the Framework of NEP2020	National Webinar on NEP	National Webinar	national	Aug, 2023	978-81-964267-7-4	ITM Gwalior	Govt. KRG PG Colleg, Gwalior



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02 Prospects of Teacher Education within the Framework of NEP 2020

Dr. Manoj Mishra, Associate Professor,
Dept. of Basic Sciences and Humanities ITM Gwalior
Dr. Arpana Mishra, Guest Faculty,
Dept. of Law MLB Autonomous College Gwalior

ABSTRACT

The Ministry of Human Resource Development (MHRD) of India unveiled the New Educational Policy in 2020 to make reforms to the educational system. Since its independence, the Indian government has established several committees and taken initiatives to raise the level and quality of teacher education. The sector of teacher education has undergone a significant transformation to become more transparent and high-quality. Thanks to the new NEP 2020. This paper aims to draw attention to the updated NEP 2020 recommendations for teacher education. This paper describes the recently introduced courses, the restructured current courses, and their integration with bachelor's degrees, all of which will soon be of use to both in-service and pre-service teachers. The paper further describes options that allow residents of remote and isolated places to realise their aspirations to pursue careers as teachers. With the new policy, teacher education will be more solidified and openly conducted. According to the new NEP 2020, the accountability of the institutions that provide teacher education has been subject to strict oversight. The paper also briefly discusses the importance of teacher education and how persons with different specialties may choose the programmes with the appropriate preparation. It also discusses the significance of incorporating local knowledge into teacher education. Overall, the paper outlines the continuance and process of teacher education in the near future in accordance with the National Educational Policy 2020.

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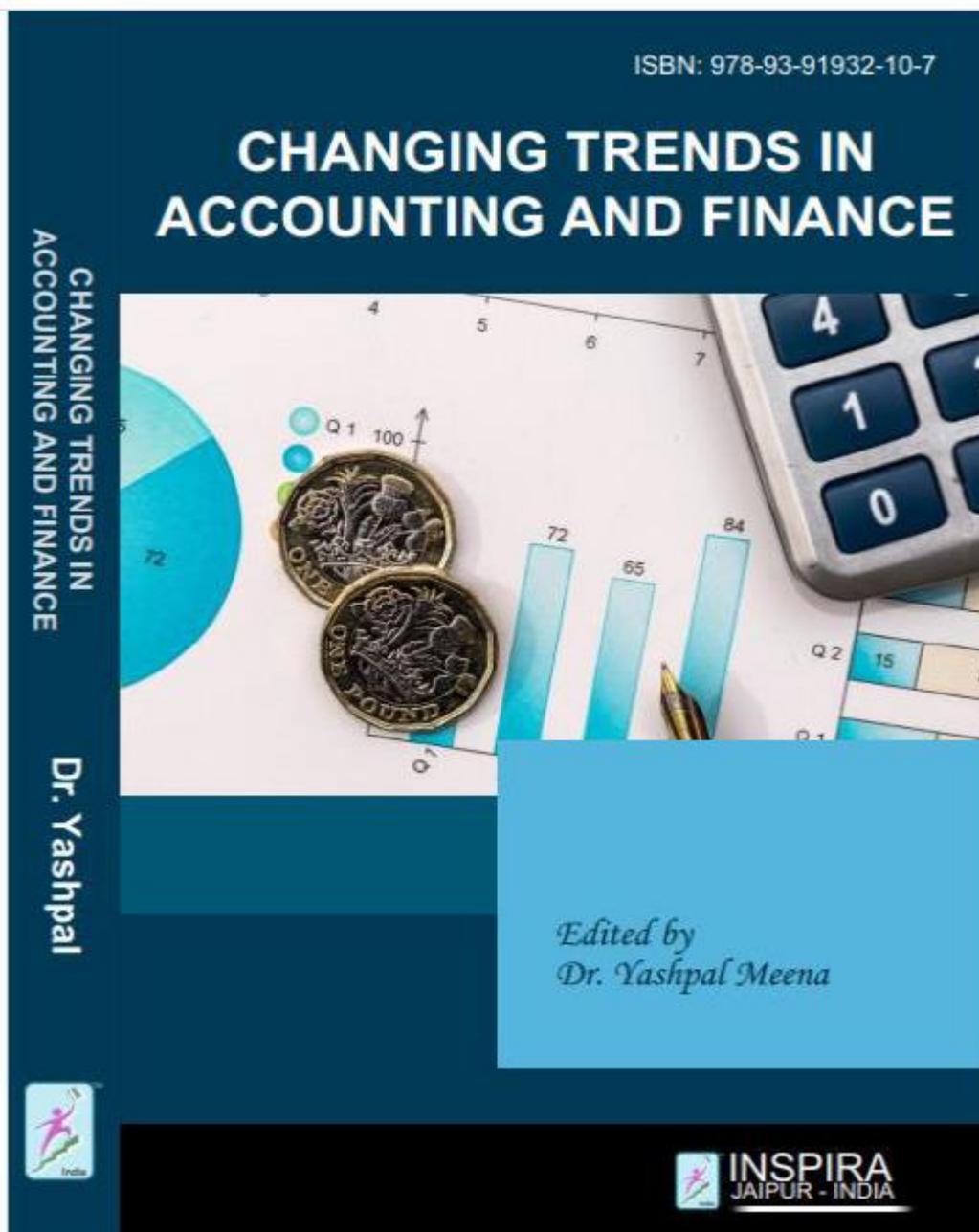
Keywords: Education, Teacher Education, B.Ed. and National Educational Policy 2020

INTRODUCTION

"A great teacher is both made and born. Teaching is a : which has to be acquired and proper training makes one skill One might say that teachers are made through strengthening t talent and learning new abilities, but they are also born with ta and a desire for teaching. Advanced teacher education is require improve these skills. Teacher education is the process of equipp a teacher with the appropriate abilities, information, attitudes, i practises to enable them to function both within and outside of classroom successfully and efficiently. Since its independence, Indian government has made every effort to improve the state teacher education through effective suggestions, recommendatio and the creation of numerous organisations, including the Natio Council of Teacher Education, the National Council of Education Research and Training, the National Assessment and Accreditati Council, and the University Grants Commissoin. By emphasisi quality in higher education, NAAC stands out as having its uniq significance in teacher education. The job of setting up conference workshops, and seminars to raise educational standards w: successful. The NCTE's inclusion of Information and Communicati Technology (ICT) permanently in the B.Ed. curriculum constitute a turning point.

One cannot overstate the importance of teacher education i India. They are the ones that instill moral values and beliefs in pupil: aiding in the development of the country. The education of teacher equips them with the skills necessary to overcome obstacles an avoid failure. It aids teachers in selecting appropriate teachin: methods and instructional resources. Teacher Education should b effectively coached to adapt to the current environment as teachin: develops future teachers. The ability to quickly adapt new approach:

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The Effect of Working Capital Management on the Profitability of Steel Industry: A Comparative Analysis

Mr. Harshit Sinha*
Dr. Ankit Gupta**

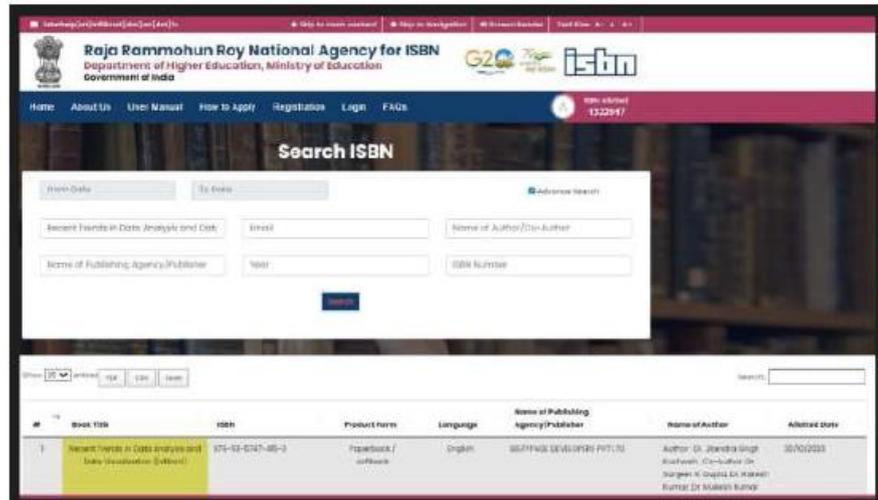
Introduction

The growth of the Indian economy is significantly influenced by the steel sector. The main contribution draws attention to the fact that steel is well-established in conventional industries including infrastructure and building, automobiles, transportation, industrial uses, etc. Even though India's steel sector is expanding faster than many other emerging nations, the impact of the global economic recession can be seen in the growth's muted pace. The automobile and construction industries are anticipated to temporarily reduce domestic demand due to increasing inflation and borrowing rates. Through both Greenfield and Brownfield initiatives, Indian steel industries are increasing their capacity. Small businesses are growing specialised industries like the production of sponge iron. According to the World Steel Association in April 2017, India has risen to become the fourth-largest steel-producing country in the world. In 2015, India overtook China as the third-largest producer of steel, and it is now on course to surpass China as the second-largest producer. Given India's low per capita steel consumption of 61 kg compared to the global average of 208 kg, there is




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Dr. Sanjeev Kumar Gupta received the BE degree in Electronics and Communication, M.Tech degree in Digital Communication and Ph.D. degree in Electronics and Communication Engineering from University Institute of Technology (UIT), Kalkaji, University Bhopal. In May 2009, he joined AICTE group of Institutions. Currently he is working as a Professor and Dean in Babushank Tiwari University (Formerly known as ABSTRACT University) Bhopal (M.P.). His current research interest is in the fields of wireless communication systems, wireless sensor networks, network systems, videoconferencing and multimedia. He is holder of Institute of Electronics and Tele-Communication Engineers (IETE). He organized various workshops, seminars and Faculty Development programs. He has published 60 papers in National and International conferences and in journals, IJIT and other reputed journals. He has guided eight M.Tech and some Ph.D. research scholars. To his credit three patents are published. He has delivered number of invited talks in many national forums for solving sustainability of reports. He has worked as expert member in various committees of different institutions. He is also re-coordinating the Ph.D. program in the university.



Dr. Rakesh Kumar currently working as Associate Professor, Department of Computer Science & Engineering and Head, Graduate IIT & Advanced Computing and member of Institute Innovation Council (IIC) MIBSI and Innovation Ambassador. He completed Ph.D. (Computer Science & Engineering). His areas interests include IOT, IoT, Robotics, Smart Technology, Artificial Intelligence and Computer Animation. He has experience in about 17 years of experience of teaching and Research at college and University level. He has organized many Workshops and Seminars. He has delivered many Paper Lectures in various organizations. He has guided AICTE funded. He has guided various projects in National Level competitions. He has guided many projects at State and National Level. He has published many Research papers in Reputed Journals (i.e., IJIT, IJCSIPIS and IJOC Approved) and presented many papers in various National and International Conferences. He has published various Book Chapters also. He is holding various patents. He has been appointed as an Editorial board member of American Journal of Science, Engineering and Technology. He has been appointed as a referee in IEEE Internet of Things Journal. He was Recognized by "Quarterly Faculty Mentorship" (Mentorship ID:VY2444), Leader Award of Engineering Research IITM, Lucknow (IITM) Press (IITM) for research paper "Daily Agile Family Software Development Methodologies". He has been appointed as reviewer in many national conferences also. He is the founder member of Centre for IOT & Advanced Computing.



Currently Dr. Mukesh Kumar is Head of Department & Associate Professor in Computer Science Department at Babushank Tiwari University. He is highly accomplished and experienced professional with a strong academic and research background. He has done projects, including an extensive three decades for fellow researchers, directors, as national level activities, invited, and a large part for a well-known foreign. He has dedicated to teaching and research has been recognized with the "Best and Foremost Teacher Award" he has actively participated in various research events, including serving as a "Faculty Chair for the International Conference on Data Science, Machine Learning and Applications (ICDSMLA-2015)". He has a strong experience in conference leading and have organized various workshops, seminars, and training programs, including NPTEL, various, AICTE FDPs, and workshops in topics ranging from Python and Data Science to Robot Lee. His research work has resulted in numerous publications in reputed journals and conferences, covering wide range of topics in computer science and engineering, including cloud computing, IoT, image processing, and network security. In addition to his research and teaching responsibilities, he holds various administrative positions within his university, including Dean Centre, Departmental, IIC Coordinator, Chairperson of the Quality Assurance Cell (QAC), and member of the Academic Council and Ass. Rectorship Committee. His contributions to academic and research reflect his dedication to the field and his commitment to the growth and development of his students and institution.

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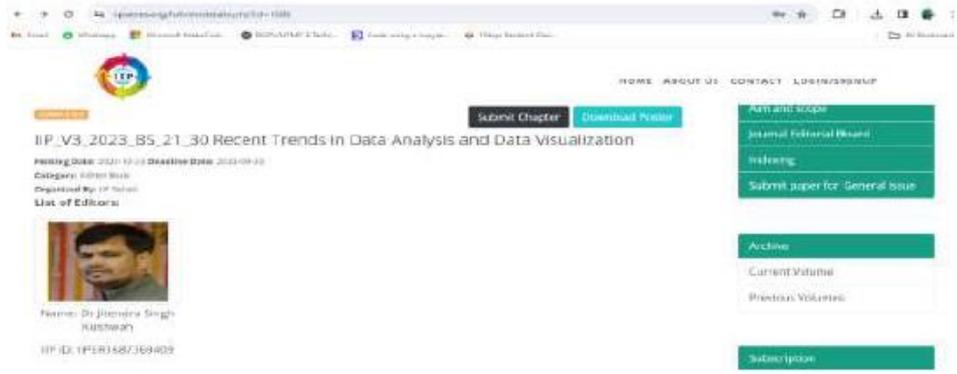
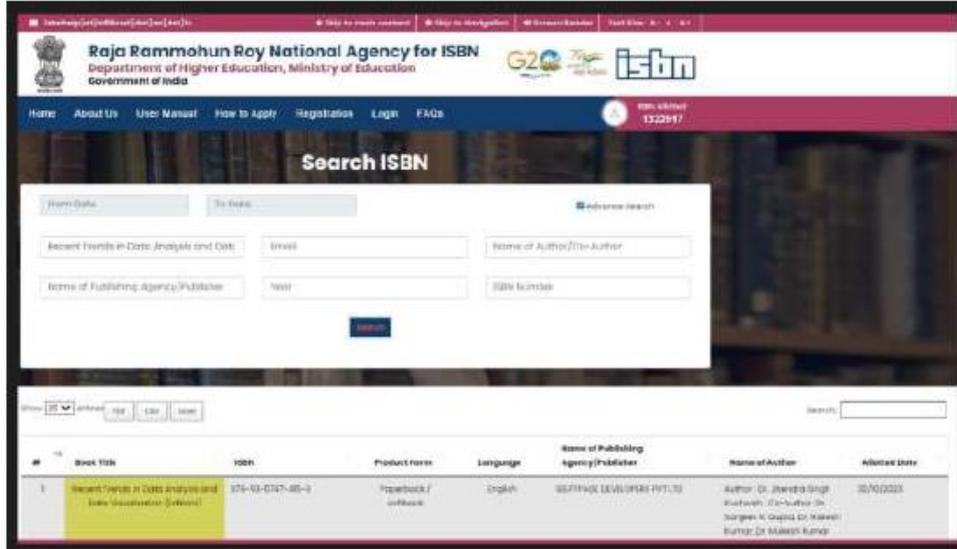
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Abstract: Breast cancer remains one of the most prevalent and life-threatening diseases affecting women worldwide. Early detection is crucial for successful treatment and improved survival rates. Traditional screening methods like mammography have played a significant role in breast cancer detection, but they have limitations. However, recent advancements in machine learning have opened up new avenues for more accurate and efficient breast cancer detection. In this article, we will explore how machine learning is revolutionizing breast cancer detection and its potential impact on improving healthcare outcomes.

Keywords: Breast cancer, Machine learning, early detection

1. Introduction

Breast cancer is a pervasive and potentially life-threatening disease that disproportionately affects women globally. It ranks among the most commonly diagnosed cancers, posing a significant threat to women's health. Early detection is paramount for effective treatment and enhanced survival rates, underscoring the critical need for improved screening methods [1].

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68	Dr. Prashant Shrivastava	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Supply Chain Management: A Detailed Review	National	Dec, 2023	978-93-5842-178-1	ITM Gwalior	Book Rivers



Dr. Preeti Singh has an MBA and Ph.D. in Management, demonstrating her passion for education. Her extensive 17-year teaching journey has endowed her with a profound understanding of the intricacies of the subject. She has published 15 papers in national and international journals and 6 case studies in The Case Center in the last few years. Her participation in conferences and academic programmes shows her interest beyond research..



Dr. Prashant Sharma has teaching experience of more than 13 years. He has completed his Ph.D. in management. He is actively engaged in research and consultancy in the area of Finance and Marketing. He has published more than 25 research paper and articles in national and international journals. Dr. Sharma is also a visiting faculty of ICAI and other reputed institute.



Mr. Ravi Kant Vajpai holds a multifaceted array of degrees, including an MBA, MSc. (CS), LLB, MCSE, and CCNA. His extensive knowledge and 15 years of teaching experience in both management and technology brings a wealth of practical insights and academic rigor to the subject matter, making this book an invaluable resource for students, professionals, and enthusiasts alike.



Dr. Ankit Gupta has done his PhD, M.B.A. and M.Com. Dr. Ankit has more than 12 years of teaching and research experience.. During his teaching period, he has attended and presented more than 42 Research Papers at various National and International Conferences and seminars organized by leading institutions in India. Dr. Ankit has published his research work at the national and international level and has more than 25 research papers to his credit in National and International journals.



Mr. Harshit Sinha holds an M. Com from Jiwaji University and is pursuing a Ph.D. in Commerce. His impressive academic journey includes UGC-NET qualification. Beyond teaching, he's presented various research papers at national and international conferences, contributing to SCOPUS journals and esteemed publications. His dedication to advancing Management through rigorous research and academic engagement is evident."



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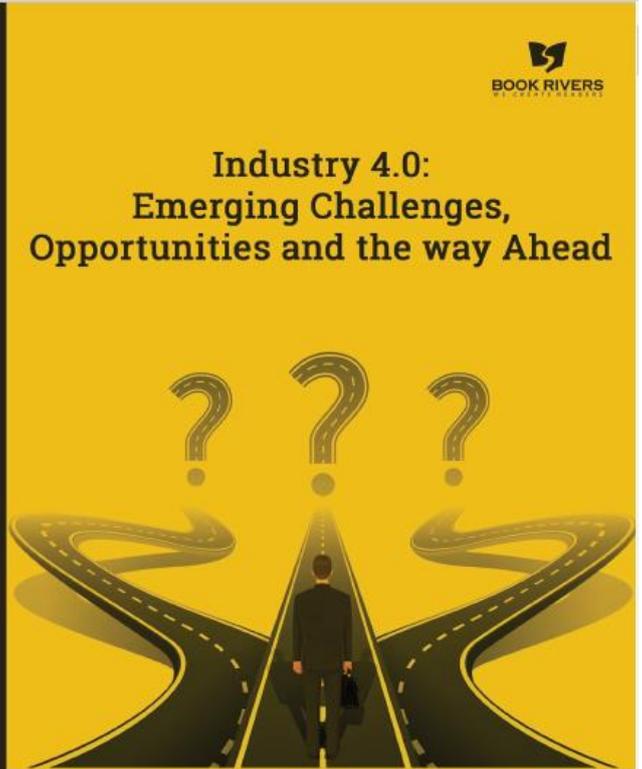
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CHAPTER-10 SUPPLY CHAIN MANAGEMENT: A DETAILED REVIEW

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ABSTRACT:

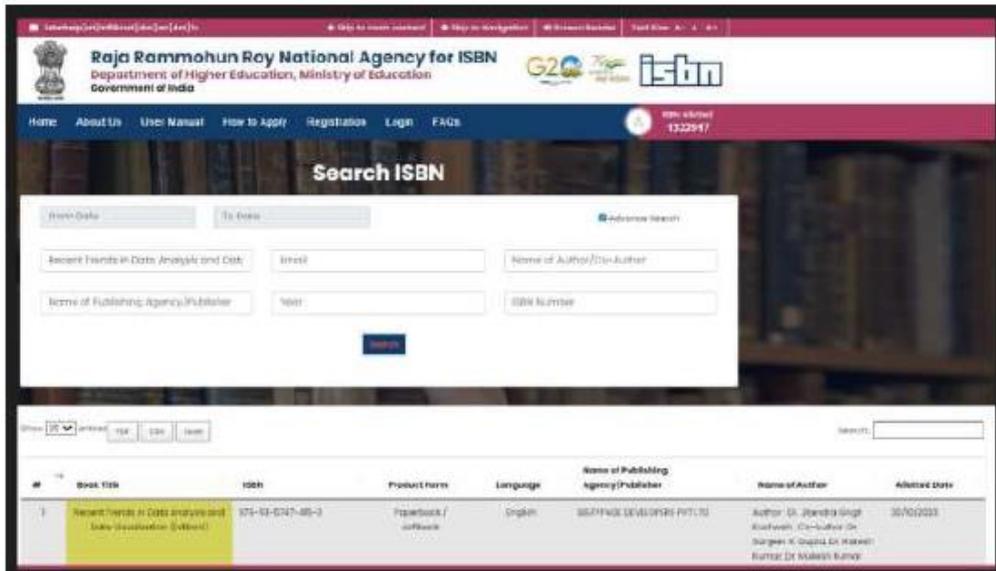
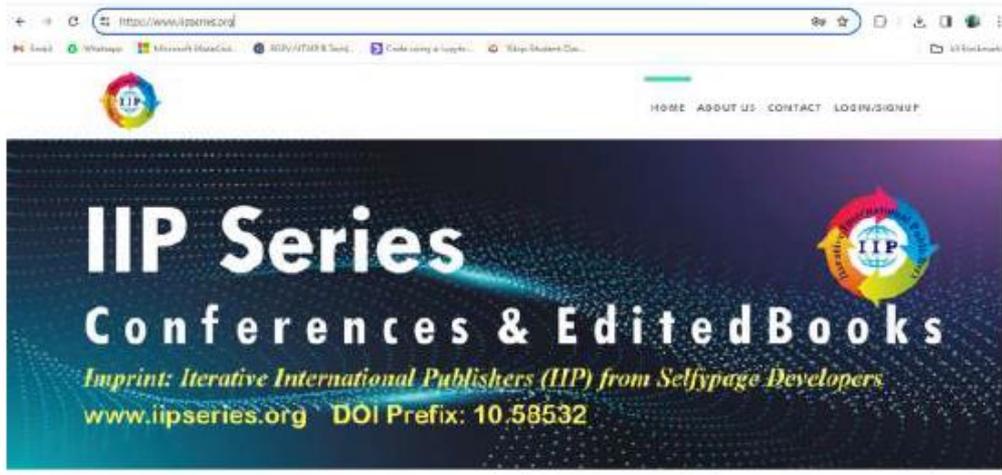
A distribution system called supply chain management (SCM) strives to deliver a service, a better product, and a product at the lowest possible cost. The client is always a key component of supply chain management. Demand and supply are integrated through the supply chain. To do this, new SCM development concepts like the Lean Supply Chain (LSC), Supply Chain Quality Management (SCQM), and Supply Chain Network Design have been developed. The supply chain in every business consists of all activities involved in completing a client request, including product development, marketing, operations, distribution, financing, and customer support, among others. It deals at the strategic level, technical level and execution level also. This paper gives a detailed review about all the supply chain management activities.

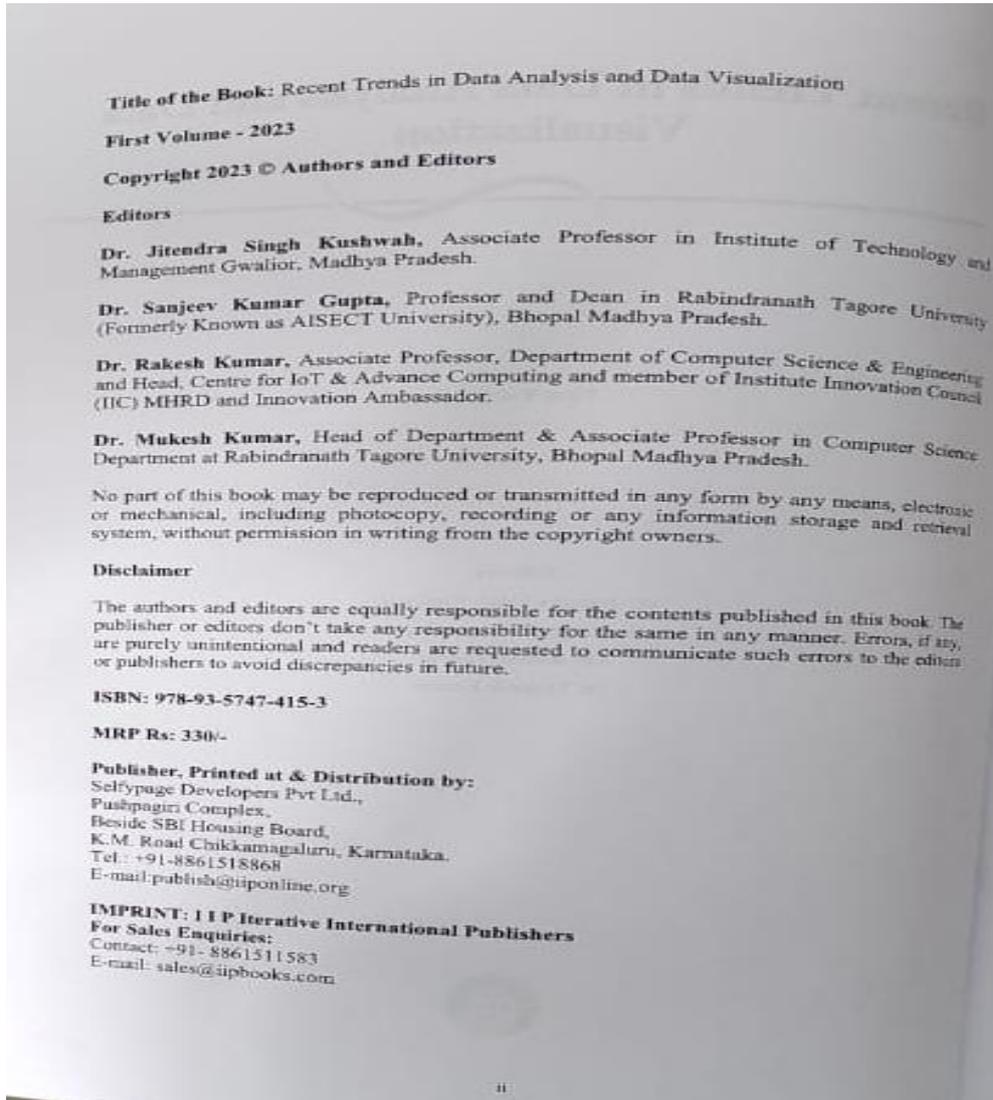
Keywords: Supply chain management; Inventory; Production; Inventory




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69	Dr. Jitendra Singh Kushwah	Recent Trends in Data Analytics and Data Visualization	Performance Analysis and Evaluation of Crop Yield Prediction from Soil using Supervised Machine Lear	national	Oct, 2023	978-93-5747-415-3	ITM Gwalior	SELFYPAGE DEVELOPERS PVT LTD





Performance Analysis and Evaluation of Crop Yield Prediction from Soil using Supervised Machine Learning Techniques

Abstract

This study emphasizes how important soil is in forecasting crop performance. Nutrient analysis can help farmers and soil scientists increase crop output by utilizing cutting-edge techniques. The research focuses on predicting mustard crop production using Kaggle's soil dataset utilizing multiple data prediction techniques. The study evaluates accuracy, recall, precision, and F-score using Decision Trees and SVM, two supervised machine learning techniques. The study finds that the best methods for precisely predicting mustard crop productivity are Logistic Regression, Decision Trees, and SVM.

Keywords: Dataset, Logistic Regression, Decision Tree, SVM

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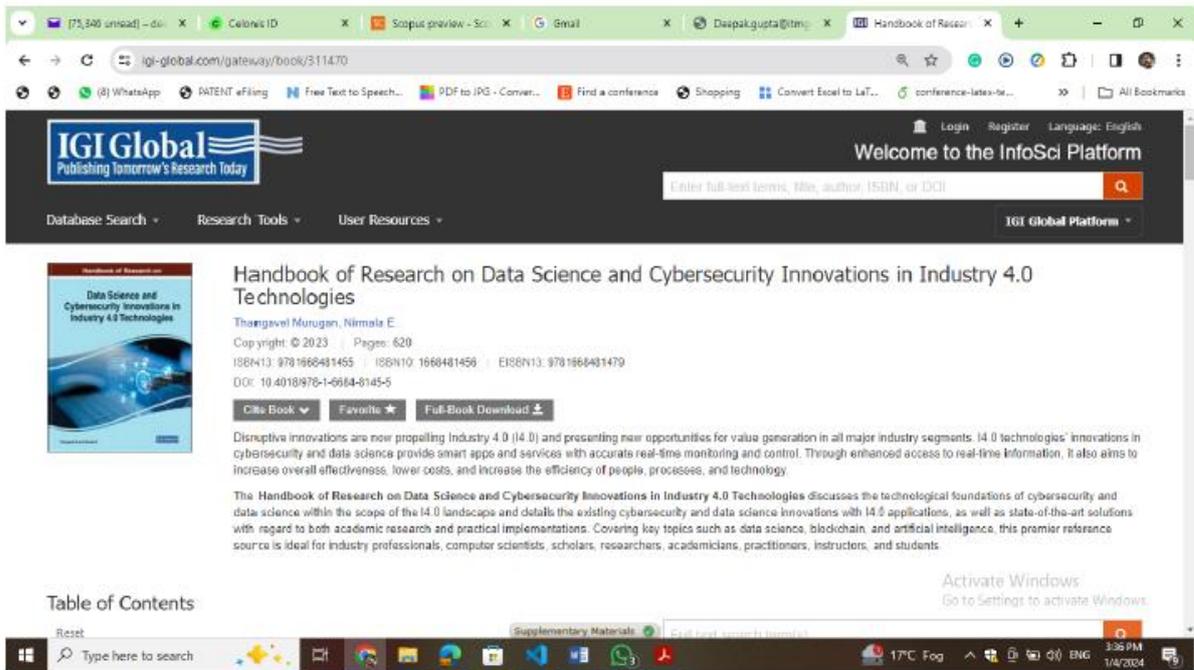
Neeraj Gaur
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1. Introduction

Self-learning via growth and experience is facilitated by supervised learning. It entails using predetermined models to collect particular inputs and custom algorithms to produce the desired outcomes. Machine learning is used in agriculture to improve crop production and quality by discovering the best conditions for a certain crop using these algorithms.

Crop yield projections are influenced by a number of variables, such as soil type, climate, pests, and terrain [1]. The combination of minerals, water, gases, and living creatures in the soil, each with unique qualities, has a substantial impact on plant growth. For fertility,

S. N.	Name Of The Teacher	Title Of Book/Chapters Published	Title Of The Paper	National / International	Year Of Publication	Isbn Number Of The Proceeding	Affiliating Institute At The Time Of Publication	Name Of The Publisher
70	Nitin Dixit	Handbook Of Research On Data Science And Cyber Security Innovation In Industry 4.0 Technologies	Wheat Crop Disease Detection And Classification Using Machine Learning	International	Dec, 2023	9781668481455	ITM Gwalior	Igi Global



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Indrajeet Kumar, Noor Mohd

Computational Thinking (CT) is a problem-solving method that depicts on thoughts and procedures from computer science to implements complex problems in an organised and effective manner. It encompasses collapsing down problems into subproblems, convenient components, recognizing patterns and perceptions, and originating algorithms to resolve them. Employing CT to learning can definitely help enhance students' ability to think significantly. The present study highlights the importance of computational thinking and its implication on student's ability to think. The segment of computational thinking is a kind of problem-solving skill that adopts the process of a computer's systematic manner. In response to this, computers are involved with deriving conclusions and solutions that are equipped with decomposing an issue, using analytical information and others. On the same hand, the application of computational thinking is deemed of high quality in inducing higher thinking capacities among students and strengthening their cognitive process which in turn brings forward advancing solutions.

Chapter 16

Wheat Crop Disease Detection and Classification Using Machine Learning

Nitin Dixit, Rakhi Arora, Deepak Gupta

The fundamental significance of agriculture in preserving human life and providing necessary resources has led to frequent references to it as the "backbone of human civilization". In human cultures all over the world, the agricultural sector has played a significant role. In today's world emerging technologies plays a very important role in the agriculture sector. Machine learning is one of them, machine learning significantly contributes to the transformation of agriculture by facilitating data-driven decision-making, enhancing productivity, and optimizing numerous processes. There are so many areas where machine learning can be applied in agriculture processes like Crop and Soil Monitoring, Yield Prediction, Pest and Disease Management, etc. Pests and diseases are major obstacles to achieving higher productivity. The creation of effective techniques for the automatic detection and forecasting of pests and illnesses in crops is very much important. In this paper, we use different machine-learning algorithms to detect early signs of pests, diseases, and weed infestations in crops.

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71	Mr. Ravi Kant Vajpai	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Emerging Trends And Technologies Impacting The Future Of Marketing With The Advent Of Chatbots	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	Suspire 6.0	National	Nov 2023	978-93-5842-178-1	ITM Gwalior	Book Rivers



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CHAPTER-14

EMERGING TRENDS AND TECHNOLOGIES IMPACTING THE FUTURE OF MARKETING WITH THE ADVENT OF CHATBOTS

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**Mr. Adarsh
Kumar**
Research Scholar,
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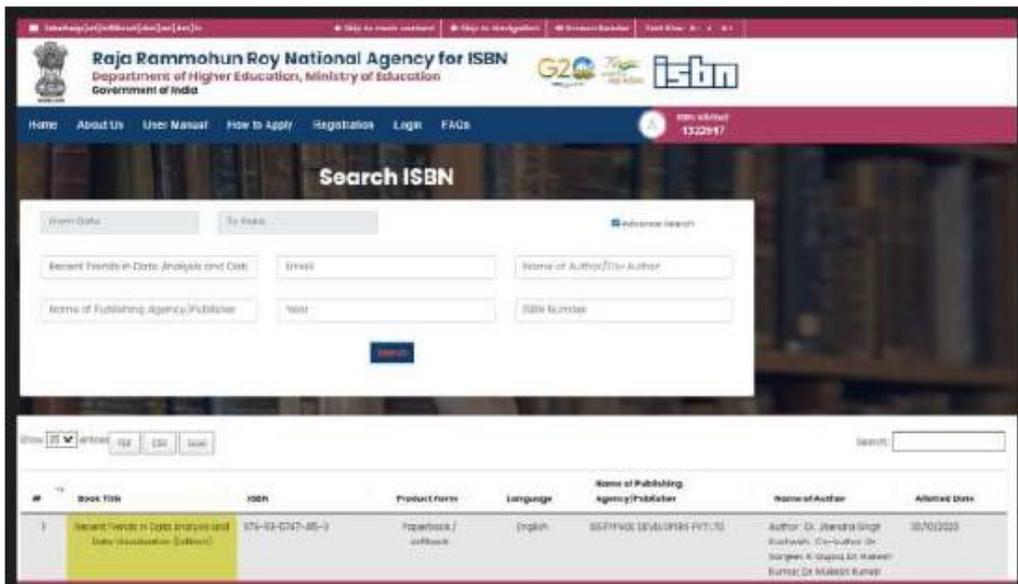
ABSTRACT:

The digital revolution has redefined the marketing landscape, prompting businesses to adopt innovative strategies to engage with customers in a rapidly evolving marketplace. The emergence of chatbots has marked a transformative shift in the way organizations interact with consumers, offering unprecedented opportunities for personalized and real-time engagements. This research thesis delves into the significant impact of chatbots on the future of marketing, exploring the emerging trends and technologies that




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72	Dr. Jitendra Singh Kushwah	Recent Trends in Data Analysis and Data Visualization	national	Oct, 2023	978-93-5747-415-3	ITM Gwalior	IIP (Selfpage Developers Pvt Ltd)



ABOUT EDITORS



Dr. Jitendra Singh Kushwah received the B.E. degree from Durg University Gwalior, M.Tech degree in Software from IITM Gwalior and Ph.D. degree in Computer Science & Engineering from Babasaheb Ambedkar University Gwalior (BAU). He has worked at IITM Gwalior as Assistant Professor in Institute of Technology and Management Gwalior (ITM). His current research interest includes Machine Learning, Data Analytics, Data Visualization and Artificial Intelligence. He has experience in about 20 years of experience of teaching and research at State and National Level. He has organized various workshops, seminars and Faculty Development programs. He has guided many projects at State and National Level. He has published many Research papers in Reputed Journals (i.e., IJCS, SCOPUS and UGC Approved) and presented many papers in various National and International Conferences. He has published various Book Chapters also. He is holding various patents and copyrights. He has guided MCA, M.Tech and Ph.D. research scholars. To his credit seven patents are published. He has delivered number of invited talks in many national platforms for various occasions of symposium. He has worked as expert member in various committees of different institutions.



Dr. Sanjeev Kumar Gupta received the BE degree in Electronics and Communication, M.Tech degree in Signal Communication and Ph.D. degree in Electronics and Communication Engineering from University Institute of Technology (UIT), Indore at Indore University Bhopal. In May 2009, he joined AICTE group of Institutions. Currently he is working as a Professor and Dean in Babasaheb Ambedkar University (Formerly known as AICTE University) Gwalior (M.P.). His current research interest includes software applications, wireless sensor network, control system, microprocessors and microcontrollers. He is holder of Fellowship of Electronics and Telecommunication Engineers (FETE). He organized various workshops, seminars and Faculty Development programs. He has published 47 papers in National and International conferences and in various IJCS and other reputed journals. He has guided eight M.Tech and seven Ph.D. research scholars. To his credit four patents are published. He has delivered number of invited talks in many national platforms of symposium. He is working as expert member in various committees of different institutions. He is also co-inventing 02 Ph.D. projects in his university.



Dr. Rakesh Kumar, currently working as Associate Professor, Department of Computer Science & Engineering and Head, Institute IIT & Advanced Computing and member of Institute Executive Council (IJC), IITM and Innovation Ambassador. He completed Ph.D. (Computer Science & Engineering). His area interests include IoT, IoT, Robotics, Smart Technology, Artificial Intelligence and Computer Architecture. He has experience in about 13 years of experience of teaching and research at college and University level. He has organized many Trainings and Workshops. He has delivered many Paper Lectures in various symposiums. He has organized AICTE funded. He has guided various Projects in National Level competitions. He has guided many projects at State and National Level. He has published many Research papers in Reputed Journals (i.e., IJCS, SCOPUS and UGC Approved) and presented many papers in various National and International Conferences. He has published various Book Chapters also. He is holding various patents. He has been appointed as an Editorial board member of American Journal of Science, Engineering and Technology. He has been appointed as a reviewer in IEEE Journal of Things Journal Openly. He was Recognized by "Quarterly Profile International" (Management) (QPIY2019), London Journal of Engineering Research (LJER), London Journal Press (LJP) for research paper "Health-Agile Family Software Development Methodologies". He has been appointed as reviewer in many International conferences also. He is the founder member of Centre for IOT & Advanced Computing.



Currently Dr. Mukesh Kumar is Head of Department & Associate Professor in Computer Science Department of Indraprastha Gyan Vigyan University. He is highly accomplished and experienced professional with a strong academic and research background. He has done various projects, including an effective three developers for device connectivity detection, an optimal path extraction method, and a large patent for a multipurpose browser. He has dedications to teaching and research. He has recognized with the "Best and Foremost Teacher Award." He has actively participated in various research projects, including serving as a Reader Chair for the "International Conference on Data Science, Machine Learning and Applications (ICDSMLA-2021)". He has a strong commitment to academic inquiry and have organized various workshops, seminars, and training programs, including NPTEL courses, AICTE FDPs, and workshops in topics like Python and Data Science to Patent Law. His research work has resulted in numerous publications in reputed journals and conferences, covering wide range of topics in computer science and engineering, including cloud computing, IoT, image processing, and research broadly in relation to his research and teaching responsibilities. He hold various administrative positions within his university, including Dean, Course Representative, SSC Coordinator, Chairperson of the Quality Assurance Cell (QAC), and member of the Academic Council and Anti-Ragging Committee. His contributions to academia and research reflect his dedication to the field and his commitment to the growth and development of his students and institution.

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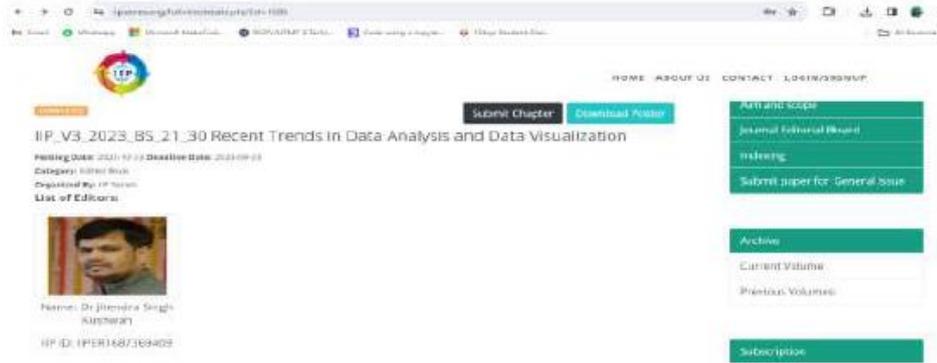
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73	Dr. Preeti Singh	Industry 4.0: Emerging Challenges, Opportunities And The Way Ahead	National	Nov 2023	Isbn: 978-93-5842-178-1	ITM Gwalior	Book Rivers

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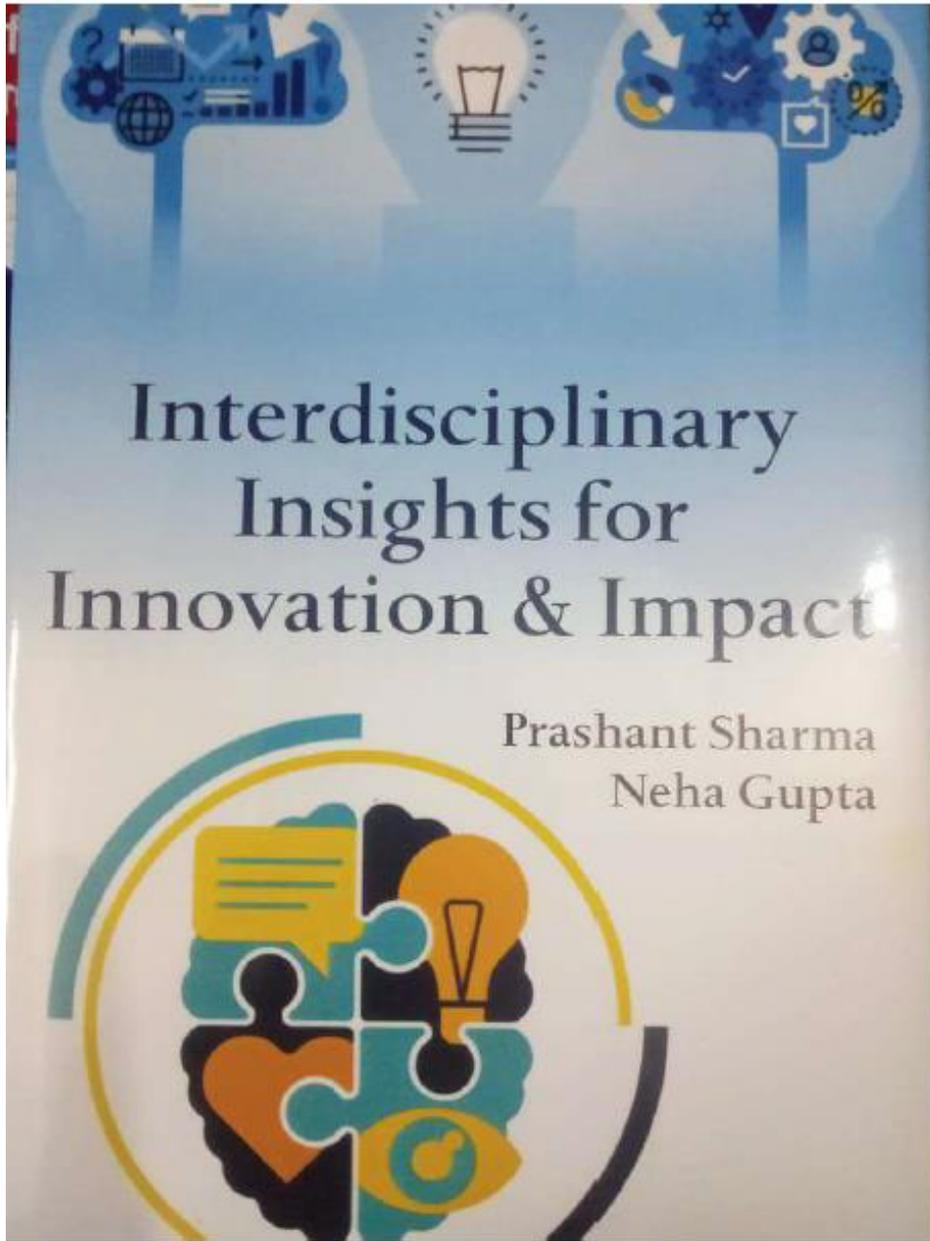
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CHAPTER

11

**A STUDY OF THE EMOTIONAL AND
PSYCHOLOGICAL DETERMINANTS THAT
AFFECT IMPULSE PURCHASE OF
BEAUTY PRODUCTS**

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ABSTRACT

Post-globalisation India has undergone major changes in terms of how consumers behave in the retail market but after the liberalization, privatization, and globalization measures of 1991, the Indian market was flooded with foreign brands. Naturally, Indian brands had to step up their game to survive in the market. The Indian consumer benefited vastly from this shift. The unparalleled convenience of being able to shop from a huge selection of goods, 24x7, and doorstep delivery, opened the doors to a whole new world. These two factors, coupled with a larger number of working women than

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