

## FACULTY PROFILE



**Name:** Mr. Vikas Sharma

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**Professional Qualification:** M. Tech [CSE], Ph.D. [ Final Year]

### **Publications (Journals & Conferences):**

<b>Title</b>	<b>Publication</b>
<b>AI-Powered Intrusion Detection and Privacy-Preserving Mechanisms in Cybersecurity</b>	AI Driven Cybersecurity for Autonomous Systems
<b>Advancing Cybersecurity Through Network Vulnerability Assessment and Exploitation</b>	Advanced Cybersecurity for Threats Exploitation and Digital Risk
<b>AI-Driven Smart Room Assistants: Enhancing Personalized Guest Experiences in Hospitality</b>	Robotics in Hotel Services Housekeeping Reception and Concierge Services
<b>LLMS-Powered Chatbots and Virtual Assistants for Interactive and Human-Like Interactions</b>	Natural Language Processing and Artificial Intelligence A Perspective Towards Current Trends Challenges and Applications
<b>Unleashing the Power of Big Data: Information Retrieval and Text Mining Strategies</b>	Natural Language Processing and Artificial Intelligence A Perspective Towards Current Trends Challenges and Applications
<b>The intersection of AI, blockchain, and social networks in urban crises management</b>	Advances in Computers
<b>Navigating the AI Landscape: Architectures and Algorithms for Natural Language Processing</b>	Natural Language Processing and Artificial Intelligence A Perspective Towards Current Trends Challenges and Applications
<b>A Self-Healing 6G Network Model Using AI-Driven Predictive Analytics</b>	Proceeding of International Conference on Computing Communication Control and Cyber Physical Systems 15cps 2026

<b>LLMS-Based Human-Like Content Creation, Including Articles, Social Media Posts, and Marketing Content</b>	Natural Language Processing and Artificial Intelligence A Perspective Towards Current Trends Challenges and Applications
<b>A Forensic Intelligence Approach for Profiling and Investigating Human-Driven Cyber Threats</b>	Cyber Forensic Frameworks for User Centric Human Threat Intelligence Analysis
<b>Signal processing for localization and sensing techniques in next-generation wireless networks</b>	Signal Processing Roadmap Technologies Applications and Future Directions
<b>AI-Driven Threat Detection and Prevention: Enhancing Cybersecurity with Machine Learning and Predictive Intelligence</b>	Implementing Enterprise Cybersecurity with AI
<b>The Role of AI and Big Data Analytics in Smart Cities: Leveraging Digital Platforms, Cloud Computing, and IoT</b>	Digital Cities
<b>Improving Cybersecurity and Risk Management Techniques in AI Blockchain Governance Systems</b>	Transforming Public Administration Through AI Driven Predictive Analytics
<b>Harnessing Predictive Analytics for Disease Diagnosis and Risk Assessment: Transforming Preventive Healthcare With AI</b>	Applied AI and Computational Intelligence in Diagnostics and Decision Making
<b>AI-Driven Clinical Decision Support Systems Enhancing Decision-Making in Modern Healthcare</b>	Applied AI and Computational Intelligence in Diagnostics and Decision Making
<b>AI-driven threat detection and incident response: Advancing cybersecurity with machine learning</b>	Improving Threat Detection Network Security and Incident Response with AI
<b>Enhancing Cybersecurity: A Machine Learning Approach for Phishing Website Detection</b>	Aip Conference Proceedings
<b>Adaptive AI systems for financial fraud detection and risk management</b>	Artificial Intelligence for Financial Risk Management and Analysis
<b>The integration of AI in telemedicine transforming healthcare delivery and patient outcomes</b>	AI Driven Personalized Healthcare Solutions
<b>Implementation of Adaptive Cloud Security Framework for Cloud Computing Monitoring System Applications</b>	Aip Conference Proceedings
<b>Analyzing Intelligent Transport Systems: A Case Study of the Balasore Rail Disaster</b>	Aip Conference Proceedings
<b>Financial forecasting with convolutional neural networks (CNNs): Trends and challenges</b>	Shaping Cutting Edge Technologies and Applications for Digital Banking and Financial Services

<b>AI in HRM: Transforming employee engagement and satisfaction amidst challenges and opportunities</b>	Human Resource Management in the Age of Generative AI
<b>Challenges and considerations in implementing internet of things and fog computing for healthcare</b>	Fundamentals of Fog Computing and the Internet of Things for Smart Healthcare
<b>Introduction to advances in fog computing and the IoT for smart healthcare</b>	Fundamentals of Fog Computing and the Internet of Things for Smart Healthcare
<b>Blockchain- Driven Innovations in the Banking and Financial Sectors: Harnessing the Power of Automated Machine Learning</b>	Utilizing AI and Machine Learning in Financial Analysis
<b>Securing Autonomous Systems AI-Based Intrusion Detection and Privacy-Preserving Mechanisms</b>	Ensuring Secure Connectivity Through AI Powered Wireless Systems
<b>Virtual clinics and hospitals: transforming healthcare in the digital age</b>	Federated Learning in Metaverse Healthcare Personalized Medicine and Wellness
<b>Enhancing healthcare services with artificial intelligence and generative artificial intelligence technologies</b>	Revolutionizing Digital Healthcare Through Artificial Intelligence and Automation Principles Technologies and Applications
<b>The Role of Teachers in an AI-Enhanced Educational Landscape</b>	AI Adoption and Diffusion in Education
<b>Hybrid CNN-LSTM Model for EEG-Based Emotion Recognition: A Comparative Analysis Using DEAP and SEED Datasets</b>	International Conference on Communication Computer and Information Technology Ic3it 2025
<b>Securing Routing in MANETs: A Comprehensive Review of Enhanced Optimized Link State Routing (EOLSR)</b>	2025 International Conference on Intelligent Computing and Knowledge Extraction Ickic 2025
<b>Adoption of Artificial Intelligence Techniques for Enhancing Host-Based Intrusion Detection Systems</b>	AI Solutions for Detecting Cyber Attacks in Information Systems
<b>An Energy-balance Clustering Routing Protocol for Intra-body Wireless Nanosensor Networks</b>	International Journal of Sensors Wireless Communications and Control
<b>Federated Learning for Privacy-Preserving Security in Wireless Networks: A Decentralized Intelligence Approach</b>	Ensuring Secure Connectivity Through AI Powered Wireless Systems
<b>Graphs, language models, and NLP: The future of search engines</b>	Applied Graph Data Science Graph Algorithms and Platforms Knowledge Graphs Neural Networks and Applied Use Cases
<b>Designing and Analyzing Multi-Layered Security Model for Ransomware-Resilient Cloud Services</b>	IC Decon 2025 2025 International Conference on Data Energy and Communication Network Proceedings

<b>Enhancing Cloud Computing Performance: A Novel Approach for Optimizing Energy Efficiency through AI- Based Load Balancing Algorithm</b>	2025 International Conference on Intelligent Computing and Knowledge Extraction Ickke 2025
<b>Revealing the Reliability of Amazon Products via Innovative Fake Review Detection using Machine Learning</b>	Proceedings of 6th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks Icciv 2025
<b>Securing the Cloud: Strategies for Protecting Sensitive Patient Data in Cloud-Based Healthcare Recommender Systems</b>	Healthcare Recommender Systems Techniques and Recent Developments
<b>The Role of Blockchain in Disrupting Traditional Banking with Decentralized Finance</b>	Decentralized Finance Defi and Blockchain A Game Changing Duo
<b>Financial Forecasting and Cybersecurity with Convolutional Neural Networks: Trends and Challenges</b>	AI Powered Cybersecurity for Banking and Finance how to Enhance Security Protect Data and Prevent Attacks
<b>Future trends and emerging technologies in biomedical engineering</b>	Innovations in Biomedical Engineering Trends in Scientific Advances and Applications
<b>Securing Electric Vehicles: A Cybersecurity Framework for Threat Detection and Mitigation</b>	International Conference on Intelligent Communication Networks and Computational Techniques Iccnct 2025
<b>Importance of Using AI and ML in the Financial Sector for Risk Prevention and Management</b>	Utilizing AI and Machine Learning in Financial Analysis
<b>IoT-Enabled Multimedia Applications in Healthcare, Telemedicine, and Imaging</b>	Studies in Big Data
<b>Exploring Quantum Cryptography, Blockchain, and Flying Ad Hoc Networks: A Comprehensive Survey with Mathematical Analysis</b>	Autonomous Flying Ad Hoc Networks
<b>Next-Gen Child Search: Advanced Predictions with Facial Features and Skin Color</b>	Proceedings 2025 7th International Conference on Computational Intelligence and Communication Technologies Ccict 2025
<b>Exploring Quantum Challenges and Opportunities of Quantum Machine Learning Adoption in Finance</b>	Machine Learning and Modeling Techniques in Financial Data Science
<b>Sustainable Automation Integrating Energy Efficiency and Smart Communication Technologies</b>	Recent Advances in Smart Communication Technologies for A Sustainable Future
<b>Sustainable Finance and Climate Stability: The Impact of ESG and Green Bonds</b>	Impacts of Climate Risk and Energy Consumption on Financial Markets

<b>Role of IoT and expert system in diabetes control with continuous diagnosis of medical conditions</b>	Decision Support System for Diabetes Healthcare Advancements and Applications
<b>Healthcare and smart cities applications of secure 6G infrastructure</b>	Building Tomorrow S Smart Cities with 6g Infrastructure Technology
<b>Social Engineering in Social Media and Online Interactions</b>	Effective Strategies for Combatting Social Engineering in Cybersecurity
<b>Embracing AI and Machine Learning for the Future of Digital Marketing</b>	AI Blockchain and Metaverse in Hospitality and Tourism Industry 4 0 Case Studies and Analysis
<b>The future of higher education: Using AI in universities to improve learning outcomes and operational efficiency</b>	Impact of Artificial Intelligence on Society
<b>Future trends and challenges in pharmaceutical microbiology with the integration of artificial intelligence</b>	AI Powered Advances in Pharmacology
<b>Exploring integration of the blockchain and internet of things (IoT) computing for secure and decentralized data management</b>	Blockchain for Iot Systems Concept Framework and Applications
<b>Impact of generative AI on metaverse-enabled healthcare industries</b>	Examining the Metaverse in Healthcare Opportunities Challenges and Future Directions
<b>Embracing the current challenges in sustainable waste management in tourism and hospitality</b>	Hotel and Travel Management in the AI Era
<b>Merging artificial intelligence (AI) and machine learning (ML) with quantum technology</b>	Quantum Evolution Application of AI and Robotics in the Future of Quantum Technology
<b>Enhancing surveillance systems through mathematical models and artificial intelligence: An image processing approach</b>	Mathematical Models Using Artificial Intelligence for Surveillance Systems
<b>Revolutionizing cloud computing security with the power of artificial intelligence: Advancements, challenges, and opportunities</b>	Smart Electric and Hybrid Vehicles Design Modeling and Assessment by Industry 4 0 Approaches
<b>Leveraging blockchain technology for sustainable development goals: A comprehensive overview</b>	Driving Transformative Technology Trends with Cloud Computing
<b>Optimization of data-transfer machines and cloud data platforms integration in industrial robotics</b>	Machine Vision and Industrial Robotics in Manufacturing Approaches Technologies and Applications
<b>A novel approach for implementing blockchain technology in the education sector</b>	Disruptive Technologies in Education and Workforce Development

<b>Exploring the potential of blockchain technology in cloud-driven Banktech innovation</b>	Banktech 4.0 the Next Wave of Transformative Banking
<b>IoMT in smart cities scaling challenges, smart healthcare applications, data integrity</b>	Lightweight Digital Trust Architectures in the Internet of Medical Things IoMT
<b>Innovative Advancements in Big Data Analytics: Navigating Future Trends With Hadoop Integration</b>	Recent Trends and Future Direction for Data Analytics
<b>Enhancing literacy education in higher institutions with AI opportunities and challenges</b>	AI Enhanced Teaching Methods
<b>Transforming classroom dynamics: The social impact of AI in teaching and learning</b>	AI Enhanced Teaching Methods
<b>Security and privacy considerations in cloud-based data processing solutions for sensitive data</b>	Developments Towards Next Generation Intelligent Systems for Sustainable Development
<b>Privacy-preserving machine learning techniques for IoT data in cloud environments</b>	Emerging Technologies for Securing the Cloud and IoT
<b>Waste-to-Energy Solutions Harnessing IoT and ML for Sustainable Power Generation in Smart Cities</b>	Methodologies Frameworks and Applications of Machine Learning
<b>Artificial neural networks &amp; discrete Wavelet transform enabled healthcare model for stress and emotion assessment using speech signal recognition</b>	AI Conference Proceedings
<b>AIoT in Education Transforming Learning Environments and Educational Technology</b>	Artificial Intelligence of Things AIoT for Productivity and Organizational Transition
<b>Security challenges in storing and exchanging medical information</b>	Medical Robotics and AI Assisted Diagnostics for A High Tech Healthcare Industry
<b>Enhancing cloud security: The role of artificial intelligence and machine learning</b>	Improving Security Privacy and Trust in Cloud Computing
<b>Serverless computing real-world applications and benefits in cloud environments</b>	Emerging Trends in Cloud Computing Analytics Scalability and Service Models
<b>Artificial intelligence (AI)-integrated biosensors and bioelectronics for agriculture</b>	Agriculture and Aquaculture Applications of Biosensors and Bioelectronics
<b>Security and privacy challenges in blockchain-based supply chain management: A comprehensive analysis</b>	Achieving Secure and Transparent Supply Chains with Blockchain Technology

<b>Efficiency assessment and optimization in renewable energy systems using data envelopment analysis</b>	Data Envelopment Analysis Dea Methods for Maximizing Efficiency
<b>AI-driven learning analytics for personalized feedback and assessment in higher education</b>	Using Traditional Design Methods to Enhance AI Driven Decision Making
<b>Cytokine response against Zika virus</b>	Cytokine Response Against Major Human Viral Infections
<b>Elevating healthcare services: The integration of cloud with fog computing</b>	Web 3 0 the Next Generations Internet and Understanding the Concept of the Metaverse
<b>Future-Proofing Talent Management: Anticipating the Evolution of AIoCF Model in the Digital Economy</b>	AI Oriented Competency Framework for Talent Management in the Digital Economy Models Technologies Applications and Implementation
<b>Cloud- Based Data Management for Behavior Analytics in Business and Finance Sectors</b>	Data Driven Modelling and Predictive Analytics in Business and Finance Concepts Designs Technologies and Applications
<b>Exploring machine learning models for biomedical signal processing: a comprehensive review</b>	Machine Learning Models and Architectures for Biomedical Signal Processing
<b>Enhancing Hotel Customer Service With AI-Powered Chatbots</b>	Marketing Technology Infused Hospitality Upskilling Frontline Employees for Competitiveness
<b>Affective Computing in Social Robotics</b>	Humanizing Technology with Emotional Intelligence
<b>Fusing Depths: Investigating the Synergy of Convolutional Neural Networks and Long Short-Term Memory Networks for Enhanced Image Caption Generation</b>	2024 International Conference on Cognitive Robotics and Intelligent Systems Icc Robins 2024
<b>Predictive Modeling of Covid-19 Severity through Computer-Aided Analysis of X-Ray Imagery</b>	2024 1st International Conference on Trends in Engineering Systems and Technologies Ictest 2024
<b>Unlocking the Potential of IoT Technologies in the Era of Industry 4.0 Digital Economy: An Exploration of the Transformative Impact</b>	Proceedings 2024 6th International Conference on Computational Intelligence and Communication Technologies Ccict 2024
<b>A Unified Deep Learning Approach for Lung Segmentation in X-Ray Images</b>	1st International Conference on Electronics Computing Communication and Control Technology Iceccc 2024
<b>Digital twins solutions for smart logistics and transportation</b>	Digital Twins for Smart Cities and Villages
<b>Guarding Finances: The Role of Image Processing in Unmasking Counterfeit Currency</b>	Proceedings 2nd International Conference on Advancement in Computation and Computer Technologies Incacct 2024

<b>Unraveling the Frontiers and Obstacles of Cluster Computing: A Thorough Review</b>	2024 2nd International Conference on Computer Communication and Control Ic4 2024
<b>Exploring the Transformative Power of Internet of Things (IoT) Technologies in the Age of Industry 4.0: Unleashing the Potential in the Digital Economy</b>	Advanced IoT Technologies and Applications in the Industry 4.0 Digital Economy
<b>Environmental sustainability and carbon footprint reduction through artificial intelligence-enabled energy management in electric vehicles</b>	Artificial Intelligence Empowered Modern Electric Vehicles in Smart Grid Systems Fundamentals Technologies and Solutions
<b>Artificial Intelligence (AI)â€‘Powered Chatbots: Providing Instant Support and Personalized Recommendations to Guests 24/7</b>	Technology and Luxury Hospitality Ai Blockchain and the Metaverse
<b>Enhancing healthcare data security in the era of 5G and Big Data Analytics</b>	Secure Big Data Analytics for Emerging Healthcare in 5g and Beyond Concepts Paradigms and Solutions
<b>A Lightweight Group Authentication Framework for Blockchain-Enabled IoT Network in Healthcare Systems</b>	Lecture Notes in Networks and Systems
<b>Enhancing Customer Experience through AI-Enabled Content Personalization in E-Commerce Marketing</b>	Advances in Digital Marketing in the Era of Artificial Intelligence Case Studies and Data Analysis for Business Problem Solving
<b>AI-Integrated IoT in Healthcare Ecosystem: Opportunities, Challenges, and Future Directions</b>	AI and IoT Technology and Applications for Smart Healthcare Systems
<b>Exploring the Transformative Power of Internet of Things (IoT) Technologies in the Age of Industry 4.0: Unleashing the Potential in the Digital Economy</b>	Advanced IoT Technologies and Applications in the Industry 4.0 Digital Economy
<b>Unraveling the Frontiers and Obstacles of Cluster Computing: A Thorough Review</b>	2024 2nd International Conference on Computer Communication and Control Ic4 2024
<b>Unmanned Aircraft Systems (UASs): Technology, Applications, and Challenges</b>	Unmanned Aircraft Systems
<b>Bioacoustics Signal Authentication for E-Medical Records Using Blockchain</b>	2024 International Conference on Knowledge Engineering and Communication Systems Ickecs 2024
<b>Ethical and Legal Implications of AI in Cybersecurity</b>	Machine Intelligence Applications in Cyber Risk Management
<b>Boosting and Embracing Artificial Intelligence and Machine Learning for the Future of Digital Marketing</b>	Synergy of AI and Fintech in the Digital Gig Economy

<b>Industry 4.0 Trends and Strategies: A Modern Approach with Focus on Knowledge Management</b>	Knowledge Management and Industry Revolution 4 0
<b>Cloud computing solutions for smart factories scalability and collaboration</b>	Emerging Technologies in Digital Manufacturing and Smart Factories
<b>Intelligent resource allocation and optimization for industrial robotics using AI and blockchain</b>	AI and Blockchain Applications in Industrial Robotics
<b>Virtual reality (VR) and augmented reality (AR) transforming medical applications</b>	AI and IoT Based Technologies for Precision Medicine
<b>The evolution of ai and its transformative effects on computing: A comparative analysis</b>	Intelligent Engineering Applications and Applied Sciences for Sustainability
<b>Advanced technologies and AI-enabled IoT applications in high-tech agriculture</b>	Handbook of Research on AI Equipped IoT Applications in High Tech Agriculture
<b>IoT Enabled Real Time Appearance System using AI Camera and Deep Learning for Student Tracking</b>	International Journal on Recent and Innovation Trends in Computing and Communication
<b>Role of Artificial Intelligence (AI) to Enhance the Security and Privacy of Data in Smart Cities</b>	2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering Icacite 2023
<b>Improving feedback analysis: Deep learning approach to college customer satisfaction assessments</b>	Multidisciplinary Science Journal
<b>Brain Computer Interaction Framework for Speech and Motor Impairment Using Deep Learning</b>	2023 International Conference on Power Energy Environment and Intelligent Control Peeic 2023
<b>Intrusion Detection in Wireless Sensor Networks using Hybrid Deep Belief Networks and Harris Hawks Optimizer</b>	2023 4th International Conference on Electronics and Sustainable Communication Systems Icesc 2023 Proceedings
<b>Detection of Encrypted and Malicious Network Traffic using Deep Learning</b>	IEEE 1st International Conference on Ambient Intelligence Knowledge Informatics and Industrial Electronics Aikiie 2023
<b>Brain-Computer Interface: Bridging the Gap Between Human Brain and Computing Systems</b>	2023 IEEE International Conference on Research Methodologies in Knowledge Management Artificial Intelligence and Telecommunication Engineering Rmkmate 2023
<b>Blockchain - A Deployment Mechanism for IoT Based Security</b>	2023 International Conference on Computational Intelligence Communication Technology and Networking Cictn 2023

<b>Blockchain - A Deployment Mechanism for IoT Based Security</b>	2023 International Conference on Computational Intelligence Communication Technology and Networking Cictn 2023
<b>Health Interpretation of Covid-19 Patients using Artificial Intelligence</b>	International Conference on Artificial Intelligence for Innovations in Healthcare Industries Icaihi 2023

### **Awards and Achievements:**

- Best Teacher Award: Academic Excellence Award received during the 26th Foundation Day Celebration at SRM Institute of Science and Technology, Delhi NCR Campus, Modinagar, Ghaziabad, U.P, India.
- Special Recognitions by University: Academia-Industry- Persons Award for Excellence in Research at SCRJET-2025. The conference was organized by the Unnat Bharat Abhiyan Cell, Sir Chhotu Ram Institute of Engineering & Technology, Chaudhary Charan Singh University, Meerut U.P, India.
- Special Recognitions by University: Academia-Industry- Persons Award for Excellence in Research at SCRJET-2026. The conference was organized by the Unnat Bharat Abhiyan Cell, Sir Chhotu Ram Institute of Engineering & Technology, Chaudhary Charan Singh University, Meerut U.P, India.

### **Workshops/Seminars/FDPs**

<b>Program</b>	<b>Organization</b>
IOT with Drone	E&ICT Academy, IIT Kanpur
AI for Managers	E&ICT Academy, IIT Kanpur
Data Science (AI & ML)	E&ICT Academy, IIT Kanpur
Advanced Pedagogy for Effective Teaching, Learning & Assessment	E&ICT Academy, IIT Kanpur
Cyber Security using AI	E&ICT Academy, IIT Kanpur

**Work Experience: 8.5 Years**

**Professional Memberships:**

<b>Organization</b>	<b>Position / Membership</b>
<b>International Association of Engineers (IAENG)</b>	Member
<b>Computer Science Teacher Association (CSTA)</b>	Fellow Member
<b>IJRP.ORG</b>	Editor
<b>World Academy of Science, Engineering and Technology (WASET)</b>	Permanent Member
<b>All India Council for Technical Skill Development</b>	Member