

Prestige Institute of Engineering Management & Research, Indore
Department of Artificial Intelligence & Data Science
Record of Research papers 2025

S.No	Faculty Name	Title of Research	List of Authors	Category	Name of Journal/Conference/Book	Year of Publication	Whether Scopus/SCI/Refreed	Document Link
1	Mr. Mohit kadwal, Ms. Diksha Bharawa	Healthcare Prediction Based on Machine Learning and Convolutional Neural Network	Mr. Mohit kadwal, Ms. Diksha Bharawa	International Journal	Journal of Neonatal Surgery	2025	Scopus	https://www.jneonatalurg.com/index.php/jns/article/view/3906
2	Mr. Mohit kadwal	Facial Emotions Recognition Through Deep Learning	Mr. Mohit kadwal	International Journal	40th M.P. Young Scientist Cong	March 2025	Refereed	https://drive.google.com/file/d/1SZCHzcmW0YzyNkieDwH8MD9_X09izX8/view?usp=drive_link
3	Mr. Mohit kadwal	Deep Learning-Driven Facial Emotion Recognition:	Mr. Mohit kadwal	International Journal	IIPS-CoMET 2025	2025	Refereed	https://drive.google.com/file/d/1wDj0KHmnFKA1M3TykDdY49cZVVAdek/view?usp=drive_link
4	Dr. Dipti Chauhan (Q1)	Optimized Secure and Energy-Efficient Approach for IoT-Enabled Wireless Sensor Networks	Dipti Chauhan	International Journal	Pervasive and Mobile Computing	2025	SCI	https://drive.google.com/file/d/1onPrmBJIsa9FEzmBTpYOC2wTqIbpxgv/view?usp=sharing
5	Dipti Chauhan, Pritika Bahad	Early Prediction of Diabetes Mellitus: An Explainable AI Approach	Dipti Chauhan, Pritika Bahad	International Journal	Indian Journal of Science and Technology	2025		https://drive.google.com/file/d/18ycnyUeURnOhj8KicChjEMLMs19FGdhe/view?usp=drive_link
6	Dr. Dipti Chauhan	Improving the Operational Efficiency of Healthcare Operations Using Digital Twins. In AI-Powered Digital Twins for Predictive Healthcare: Creating Virtual Replicas of Humans (pp. 139-168).	Dipti Chauhan, Pritika Bahad	Book Chapter	IGI GLOBAL	2025	Scopus	https://drive.google.com/file/d/1aqWdyYllegqFtb3DmzrKt4a9A0p0bCPc/view?usp=sharing
7	Dr. Dipti Chauhan	Ethical Considerations in Digital Travel Health. In Navigating Innovations and Challenges in Travel Medicine and Digital Health (pp. 413-430). IGI Global Scientific Publishing.	Diksha Bharawa, Jaya Mishra, Dipti Chauhan, Pritika Bahad	Book Chapter	IGI GLOBAL	2025		https://drive.google.com/file/d/1nLw8qOrCikp2K4qD0il_WWvNrbWr2OqC/view?usp=drive_link
8	Dr. Dipti Chauhan	Li-Fi for Next Generation Wireless Communication: Technical Insights and Innovations." RFID, Microwave Circuit, and Wireless Power Transfer Enabling 5/6G Communication. IGI Global Scientific Publishing, 2025. 395-416. Indexed in Scopus.	Dipti Chauhan, Jay Kumar Jain	Book Chapter	IGI GLOBAL	2025	Scopus	https://drive.google.com/file/d/1f07EAD6hTcy2l0RZvH8Zludpzmq2AB/view?usp=sharing
9	Mohit Kadwal	AI-Driven Intrusion Detection Systems: Leveraging Deep Learning for Network Security	Manish Joshi1, Sunderlal Birta2, Hemant Pal1, Kavita Khatri3, Mohit Kadwal4, Dinesh Salitra5	International Journal	Nanotechnology Perceptions Scopus Index	2024	Scopus	https://drive.google.com/file/d/1_5wjAzWQokulCWbrM3AoyV8dsF_zOCzd/view?usp=sharing
10	Dr. Dipti Chauhan	Enhancing Network Intrusion Detection with Support Vector Machines: A Comparative Study of Feature Selection Techniques	Manish Khule, Deepak Motwani, Dipti Chauhan	International Conference	Print International Conference on Smart Electronics and Communication (ICOSEC 2024)	2024	Scopus	https://drive.google.com/file/d/1u1JxOYBIUVoBL5177KrvMfPMK9wxUcId/view?usp=sharing
11	Dr. Dipti Chauhan	Classifying Sleep Health and Lifestyle Patterns: A Machine Learning Approach Using IoT and Cloud. In Revolutionizing Healthcare Systems Through Cloud Computing and IoT	Dipti Chauhan, Jay Kumar Jain	Book Chapter	IGI GLOBAL	2025	Scopus	https://drive.google.com/file/d/1V73LiDmyKeA7DmmeMstAqZiYCvDbqL/view?usp=sharing
12	Dr. Dipti Chauhan Dr. Pritika Bahad	Digital Twins-enabled model for Smart Farming." Digital Twins for Smart Cities and Villages. Elsevier, 2025. 465-487.	Chauhan, Dipti, Pritika Bahad, and Raghvendra Jain.	Book Chapter	Elsevier	2025	Scopus	Digital Twins-enabled model for Smart Farming - ScienceDirect.pdf
13	Dr. Dipti Chauhan Dr. Pritika Bahad	Applications of Quantum Artificial Intelligence: A Systematic Review	Dipti Chauhan, Pragya Ranka, Pritika Bahad, Rupali Pathak	Book Chapter	IGI GLOBAL	2025	Scopus	https://drive.google.com/file/d/1Orbm317dnnGgBxPmVQShg-h_fhb9TBDb/view?usp=drive_link
14	Dr. Dipti Chauhan, Dr. Pritika Bahad, Ms. Diksha Bharawa	Sentiment Analysis of Helpdesk Calls: Enhancing Customer Support through Natural Language Processing	Pritika Bahad, Dipti Chauhan, Diksha Bharawa	International Conference		2025	Scopus	
15	Dr. Pritika Bahad	Improving the Operational Efficiency of Healthcare Operations Using Digital Twins. In AI-Powered Digital Twins for Predictive Healthcare: Creating Virtual Replicas of Humans (pp. 139-168).	Dipti Chauhan, Pritika Bahad	Book Chapter		2025	Scopus	
16	Dr. Pritika Bahad, Ms. Diksha Bharawa	Ethical Considerations in Digital Travel Health. In Navigating Innovations and Challenges in Travel Medicine and Digital Health (pp. 413-430). IGI Global Scientific Publishing.	Diksha Bharawa, Jaya Mishra, Dipti Chauhan, Pritika Bahad	Book Chapter		2025	Scopus	
17	Dr. Dipti Chauhan, Dr. Pritika Bahad	Role of Generative Artificial Intelligence (Gen AI) in Software Testing	Nisha Pancholi, Pritika Bahad, Dipti Chauhan	International Conference	IIPS-CoMET 2025	2025		
18	Ms Diksha Bharawa	Comparing Decision Tree and Logistic Regression Models for Employee Mental Health Assessment	Ms Diksha Bharawa	International Conference		2025		https://drive.google.com/file/d/1UQWh5ugvB3czTPNlKC7fTHSPhaEXai/view?usp=drive_link

Patent Details 2025

1	Dr Dipti Chauhan/Dr Naveen R Shahi/Mr. Mohit Kadwal/Dr Pritika Bahad/Ms Diksha Bharawa	443556-001	IOT Based Device to check Nutrient of Soil	Published 8th Jan 2025	Intellectual Property Rights India,	https://drive.google.com/file/d/1WRAlZ5n0lDcoEkgW1L6Y_TwNwU4nYyVv/view?usp=sharing
2	Dr. Naveen R Shahi Dr. Dipti Chauhan Dr. Pritika Bahad Dr. Vaishali Sharma Ms. Diksha Bharawa Ms. Preeti Pandey Mr. Mohit Kadwal	448378	AI-Based Wireless Signal Repeater Device for Mobile Networks	Published dated 30/04/202	Intellectual Property Rights India,	ai based wireless signal.pdf
3	Dr. Dipti Chauhan	202421064-149	AI-DRIVEN BLOCKCHAIN DEVICE FOR SUSTAINABLE AND TRANSPARENT SUPPLY CHAIN MANAGEMENT WITH IOT INTEGRATION	PUBLISHED	Intellectual Property Rights India,	https://drive.google.com/file/d/1Ae8WH7s_ykVnNsNC-EGmm9--twWhpJE/view?usp=sharing