

LAKSHMI NARAIN COLLEGE OF TECHNOLOGY, BHOPAL

Department of Computer Science & Engineering

Faculty Achievement 2025-2026

Research Project

Heartiest Congratulations to Our Esteemed Faculty! □

Lakshmi Narain College of Technology, Bhopal, proudly congratulates **Dr. Vineet Richhariya (Principal Investigator)** and **Dr. Puneet Nema (Co-Principal Investigator)** on the successful sanctioning of a prestigious research project by the **Madhya Pradesh Council of Science & Technology (MPCST), Bhopal**.

□ **Research Project:** “Cardiovascular Disease Risk Based Assessment Considering Lifestyle and Demographics Factor in Indian”

□ **Grant Amount:** ₹6.32 Lakhs



The certificate is a blue-bordered document with a white background. At the top, it features logos for LNCT Group of Colleges, Institution's Innovation Council, NBA Accredited College, NIRF, and India Today Outlook. The main title is "Faculty Achievement" in bold blue font, followed by "Lakshmi Narain College of Technology" and "Department of Computer Science & Engineering". A large, elegant cursive "Congratulations" is centered. Below this are two circular portraits of Dr. Vineet Richhariya and Dr. Puneet Nema, with their names and roles (Principal Investigator and Co-Principal Investigator) listed underneath. The text states that a prestigious research project has been sanctioned by the Madhya Pradesh Council for Science & Technology (MPCST), Bhopal. The research project is titled "Cardiovascular Disease Risk Based Assessment Considering Lifestyle and Demographics Factor in India". The grant amount is ₹6.32 Lakhs and the project duration is 2 years. At the bottom, it mentions that this achievement reflects LNCT Group's commitment to innovation, impactful research, and academic excellence. The footer includes the website www.LNCT.ac.in and the contact number 7440777111/222/555.

Faculty Achievement
Lakshmi Narain College of Technology
Department of Computer Science & Engineering

Congratulations

Dr. Vineet Richhariya
Principal Investigator

Dr. Puneet Nema
Co-Principal Investigator

Prestigious research project has been sanctioned by the Madhya Pradesh Council for Science & Technology (MPCST), Bhopal.

Research Project
"Cardiovascular Disease Risk Based Assessment Considering Lifestyle and Demographics Factor in India"

Grant Amount: ₹6.32 Lakhs | Project Duration: 2 Years

This remarkable achievement reflects LNCT Group's commitment to innovation, impactful research, and academic excellence.

www.LNCT.ac.in 7440777111/222/555

Book Chapters Publication

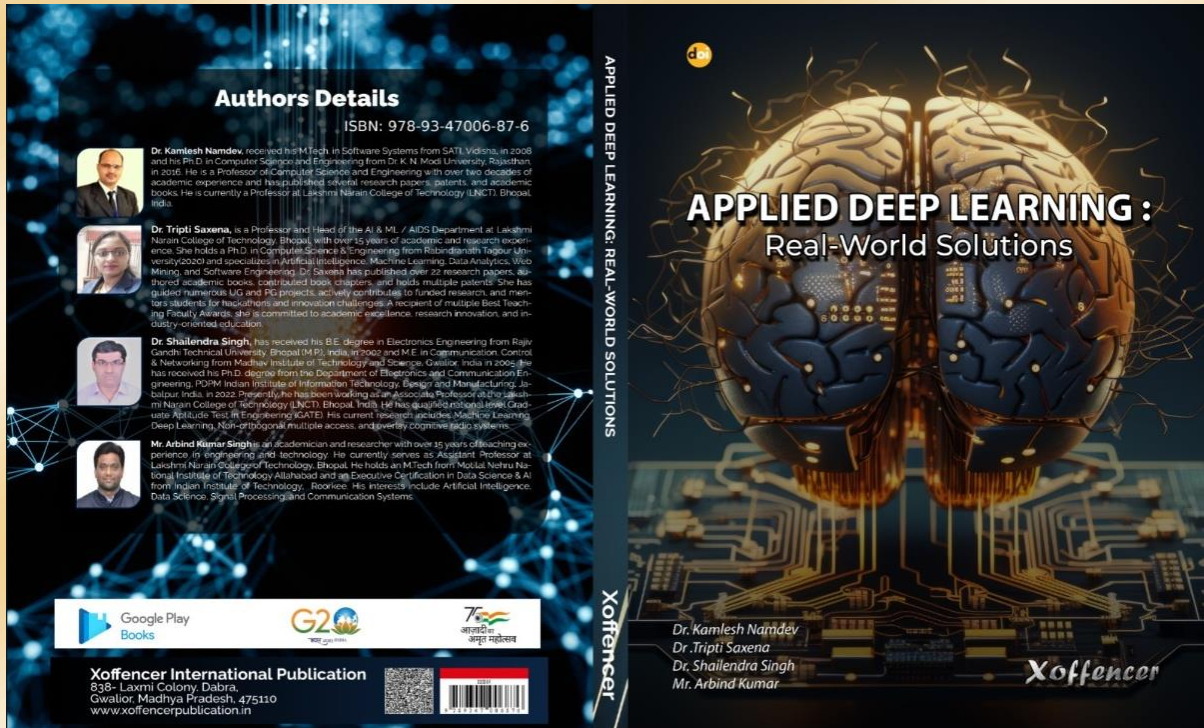
- Dr. Sandeep Sahu, had successfully published a book chapter entitled ***A Review on IoT-enabled Body Sensor Networks for Healthcare System*** with Taylor & Francis Group CRC Press, UK.

Research Publication

- Dr. Tripti Saxena. et al. **Deep reinforcement learning for AI-driven successive interference cancellation in hybrid NOMA-UAV networks.** Sci Rep (2026). <https://doi.org/10.1038/s41598-026-66552-8>.
- Dr. Devendra Singh Rathore. et al. **SpectralX: Efficient Global-local Representation via Fourier Gating and Prototype Refinement for Weakly Supervised Thorax Disease Classification.** Int J Comput Intell Syst 19, 316 (2026). <https://doi.org/10.1007/s44196-026-01400-1>
- Dr. Anju Singh " **Enhanced Pneumonia Detection From Chest X-rays using Machine learning and Deep Neural Architectures**" 2025, ARO-THE SCIENTIFIC JOURNAL OF KOYA UNIVERSITY, 13(1), pp. 227–236. doi: 10.14500/aro.12174.
- Dr. Huma Gupta " **Comparative Analysis of Machine and Deep Learning Models for Intrusion Detection in Fog-Enabled IoT Networks**", Int J NetwDistribComput 14, 1 (2026). <https://doi.org/10.1007/s44227-025-00079-8>.
- Dr. Anju Singh " **Anti-epileptic medication induced distributed calcium-vitamin D metabolism: A behavioural analysis using association rule mining technique**" 2025, World journal of Experimental Medicine, 13(1), pp. 227–236. doi.org/10.5493/wjem.v15.i3.104799.
- Dr. Aakriti Jain " **An Investigation of Pima Indians Diabetes Database with Ensemble Approaches**" 2025, International Conference on Engineering Innovations and Technologies (ICoEIT), doi.org/10.1109/ICoEIT63558.2025.11211580.
- Dr. Sandeep Sahu " **Cyber Security Implementation for Small Industries: Addressing Fundamental Cyber Security Challenges**" 2025, International Conference on Engineering Innovations and Technologies (ICoEIT), doi.org/10.1109/ICoEIT63558.2025.11211677.
- Dr. Aakriti Jain " **Optimization-Based Mining for Diabetes Prediction: A Comprehensive Review**" April 2025 | IJIRT(International Journal for Research Trends and Innovation) | Volume 11 Issue 11 | ISSN: 2349-6002
- Dr.Aakriti Jain " **An Investigation of Pima Indians Diabetes Database with Ensemble Approaches**" 2025, International Journal of Recent Technology Science & Management, [doie.org/10.10206/IJRTSM.2025247445](https://doi.org/10.10206/IJRTSM.2025247445).
- Dr. Shailendra Singh, “**Outage Performance of Cooperative NOMA-Inspired Overlay CR System with ISIC and ICSI,**” published in 3rd IEEE International Conference on Microwave, Antenna & Communication (MAC-2025), held at MANIT, Bhopal, India, doi: 10.1109/MAC64480.2025.11139981

- Dr. Shailendra Singh, Tripti Saxena, Kamlesh Namdev, Adarsh Raushan and Jyoti Pasi, **“Outage Analysis of NOMA Assisted Cooperative Interweave Cognitive System Using DAF-FD Relay,”** published in IEEE International Conference on Engineering Innovations and Technologies (ICoEIT 2025), held at LNCT, Bhopal, India. doi:10.1109/ICoEIT63558.2025.11211855
- Dr. S Singh and Prof. M Bansal, **“Outage Analysis of STBC-NOMA Inspired Overlay Cognitive Radio System with ISIC,”** accepted and presented in 9th IEEE Conference on Information & Communication Technology (IEEE CICT-2025), held at IIITDM, Kancheepuram, India.
- Prof. Hitesh Gupta **“Real-Time Fire Detection Leveraging Enhanced Convolutional Neural Networks for Improved Safety and Swift Emergency Response”** 2025 International Conference on Next Generation of Green Information and Emerging Technologies (GIET), Gunupur India, DOI: 10.1109/GIET65294.2025.11234817.
- Dr. Sushil Kumar **"Air Pollution Forecasting Using a Deep Learning Model Based LSTM-GRU"** 2026, 2025 IEEE 1st International Conference on Smart Innovations in Systems, Infrastructure, Mechanical, Power, AI and Computing Technologies (SISIMPACT), DOI: 10.1109/SISIMPACT67725.2025.11439078.
- Dr. Poonam Mishra **"Analysis of Route Prediction Approach for Measure Reliability Impact in Mobile Ad hoc Networks"** 2026, 2025 IEEE 5th International conference on ICT in Business Industry & Government (ICTBIG), 10.1109/ICTBIG68706.2025.11323266.
- Prof. Mahesh Malviya **"Patch Antenna Design for Physical Layer Security in 5G Millimeter-Wave Communication System"** 2026, 2025 in IEEE International Conference on MULTIDISCIPLINARY INNOVATIONS FOR SMART & SUSTAINABLE FUTURE (MISSF 2026).
- Prof. Mahesh Malviya **"Ace Millimeter Wave Antennas for Long-Range Low-Power IoT Networks in 5G Communication"** 2026, 6th International Conference on Advancement ICANCT-2026 in Nano - Electronics & Communication Technologies.
- Dr. Aakriti Jain **“Study on Brain Tumor Detection and classification using Machine Learning with SIFT”**. Journal of Chemical Health Risks. ISSN 2251-6727.
- Anurag, Shreya, Dr. Kamlesh Namdev, and Dr. Tripti Saxena. **"Intelligent Classification of Liver Diseases using Multi-Layer Perceptron Neural Network"** In 2025 IEEE 3rd Global Conference on Wireless Computing and Networking (GCWCN), pp. 1-5. IEEE, 2025.

BOOKS Published By Faculty Members



Design Patent/Utility Patent Published

S.No	Faculty Members	Title	Dated
1	Prof. Satendra Kumar Jain, Prof. Ashish Dubey, Prof. Mahesh Malviya, Prof. Hitesh Gupta, Prof. Madhuri Sharma, Prof. Komal Pandey	System And Method For Real-Time Disease Risk Assessment Using Federated Machine Learning	01-09-2025
2	Dr.Huma Gupta , Dr. Subodhini Gupta, Dr. Devashri Deoskar and Dr.Sadhna K Mishra	AI Powered Real Time Speech Plagiarism Detection System	06-05-2025
3	Dr Deepak Singh Tomar, Dr. Shatendra Kumar Dubey , Prof. Sanjay Kumar Gupta	Compact Machine Learning System For Real Time On-Site Data Analysis And Adaptive Insight Generation In Field Deployments	30-07-2025
4	Prof. Sanjay Kumar Gupta	Mobile AI Driven Computer Device For Secure Offline And Automated Data Analysis And Visualization Tasks In Field Environment	12-06-2025
5	Dr. Sushil Kumar , Prof. Satyendra Vishwakarma, Prof. Lekha Jadhav, Prof. Sapna Lonare	AI Based Personalization Engine For Dynamic User Profiling And Content Personalization Using Multimodal Natural Language Processing And Implicit Behavioral Cue Integration	01-10-2025
6	Dr. Sandeep Shau, Prof. Hitesh Gupta, Dr. Puneet Nema, Dr. Devendra Singh Rathore, Dr. Pushpendra Singh Tomar	System and method for optimizing ai model performance using meta learning.	4-06-25
7	Dr.Aakriti Jain, Dr. Nikita Mitra, Prof. Pooja Mittal, Prof. Nandita Tiwari	Delivery System For Residential Complexes	05-09-2025
8	Prof. Rahul Saini, Dr. Sushil Kumar, Prof. Satyendra Vishwakarma, Prof. Sapna Lonare, Prof. Lekha Jadhav, Prof. Sweta Kushwaha	AI Based Personalization Engine For Dynamic User Profiling Content Personalization Using Multi Model Nlp And Implicit Behavioral Cue Integration	01-10-2025
9	Dr. Pravin Kumar Malviya, Prof. Bhuvnesh Singh Yadav, Dr. Pushpendra Anuragi, Prof Jitendra Kumar, Dr. Prajeet Sharma	Portable Devices For Dynamic Vulnerability Analysis: A Compact Solution For Proactive Information Security Management	12-06-2025
10	Dr. Pravin Kumar Malviya, Dr. Deepak Kumar Rathore, Prof.	Computer Vision-Based Home Security System With Intelligent Intrusion	

	Himanshu Barhaiya, Prof Jitendra Kumar,	Detection And Threat Analysis	12-06-2025
11	Prof. Sourabh Singh	Smart Authentication Device For Passport	09/07/2025
12	Dr. Pravin Kumar Malviya	Innovations in Agriculture and Rural Development: Sustainable Farming Systems and Agricultural Management	LD-10306/2026-CO
13	Prof. Rahul Kumar Majhi	A system and method for automated fish fingerling counting using computer vision-based processing technique	203000000000
14	Prof. Bhuvnesh Singh Yadav	Portable Device For Dynamic Vulnerability Analysis: A Compact Solution for Proactive Information Security Management	202521056432 A
15	Dr. Pravin Kumar Malviya, Prof. Susheel Kumar Gupta, Dr. Vivek Richhariya	Adaptive Iot Edge Device Employing Local Machine Learning Models For Predictive Equipment Diagnostics	202521133900 A
16	Dr. Kamlesh Namdev, Dr. Tripti Saxena, Dr. Shailendra Singh, Prof. Adarsh Raushan	TIME-SYNCHRONIZED AUDIO REASONING SYSTEM FOR REAL-TIME EDGE DEPLOYMENT	06/03/2026
17	Dr. Tripti Saxena, Dr. Shailendra Singh, Dr. Kamlesh Namdev, Dr. Vineet Richhariya, Dr. Vivek Richhariya, Prof. Adarsh Raushan, Prof. Arbind Kumar Singh	System For Real-Time Vehicle Compliance Monitoring And Automated Roadway Enforcement	06/03/2026

NPTEL Certifications

**** We congratulate Prof. Susheel Kumar Gupta, Department of Computer Science & Engineering, on his recognition as an NPTEL STAR and other faculty members for their excellent efforts.**

S.No	Faculty Name	Title	
1	Dr. Anju Singh	Machine learning and deep learning -Fundamentals and Applications	68%
2	Prof. Shivmangal Singh Bhadauriya	Privacy and Security in online Social Media	Passed
3	Prof. Shivmangal Singh Bhadauriya	Artificial Intelligence: Concepts and Techniques	Passed
4	Dr. Priyanka Asthana	Data Base Management System	60%
5	Prof. ASHISH DUBEY	Introduction to Machine Learning	58%
6	Prof. ASHISH DUBEY	Machine Learning Using Python Programming	66%
7	Dr. Anju Singh	Python for Data Science	72%
8	Prof. Sanjay Kumar Gupta	Data Structure and algorithm	Qualified 57%
9	Prof. Sapna lonare	Data structure	60%
10	Prof. Sapna lonare	DBMS	45%
11	Prof. Sapna lonare	Computer network	58%
12	Dr. Huma Gupta	Python for Data Science	Elite + Silver 75
13	Dr. Huma Gupta	DBMS	Elite
14	Dr. Priyanka Asthana	DBMS	Elite
15	Dr. Puneet Nema	TOC	Passed
16	Prof. RAM PRATAP SINGH	Introduction to Machine Learning	Elite
17	Dr. Poonam Choudhari	Python for Data Science	Elite 69%
18	Prof. Diksha rathore	Operating system	passed

19	Dr. Shailendra Singh	Introduction to Machine Learning	Elite + Gold 90%
20	Prof. Mahesh Malviya	TOC	Elite
21	Prof. Devendra Singh Rathore	OnManaging Intellectual Property in Universities	Elite + Silver 83%
22	Prof. Devendra Singh Rathore	Software Testing	Elite 64%
23	Dr. Subodhini Gupta	Data Mining	Elite 66%
24	Dr. Subodhini Gupta	Python for Data Science	Elite 65%
25	Dr. Subodhini Gupta	Introduction to Machine Learning	Elite 60%
26	Prof. Lekha Jadhav	PYTHON FOR DATA SCIENCE	SILVER ELITE 75%
27	Prof. Hitesh Gupta	Mobile Virtual Reality and Artificial Intelligence	Elite 72%
28	Dr. Huma Gupta	Data Mining	75
29	Prof. Adarsh Raushan	Deep Learning - IIT Ropar	55%
30	Prof. Adarsh Raushan	Qualitative Research Methods and Research Writing	70%
31	Dr. Sourabh Singh	Blockchain and its Applications	80%
32	Prof. Susheel Kumar Gupta	Real Time Operating System	72
33	Prof. Adarsh Raushan	Introduction to Internet of Things	80%
34	Dr. Poonam Choudhari	Introduction to Large Language Models	76%
35	Prof. Susheel Kumar Gupta	Edge Computing	85
36	Prof. Susheel Kumar Gupta	Wireless Ad Hoc and Sensor Networks	78
37	Prof. Susheel Kumar Gupta	Software Testing	75
38	Dr. Poonam Choudhari	Foundation of Deep Learning	77%
39	Dr. Priyanka Asthana	Data Mining	76%
40	DR.Anju Singh	BLOCKCHAIN AND ITS	69

		APPLICATIONS	
41	DR. Anju Singh	NEURAL NETWORK FOR COMPUTER VISION AND NATURAL LANGUAGE PROCESSING	94%
42	DR. Anju Singh	FOUNDATION OF DEEP LEARNING CONCEPTS AND APPLICATIONS	75%
43	Prof. Mohnish Patel	Cloud Computing	60+ Elite
44	Prof. Sapna Lonare	python for data science	67%
45	Prof. Sapna Lonare	neural network for computer vision and natural language processing	82%
46	Dr. Sourabh Singh	Cyber Laws	68%
47	Prof. Mahesh Malviya	Compiler Design	successfully completed course
48	Dr Aakriti jain	introduction to Machine Learning	Elite
49	Dr Aakriti Jain	introduction to OOP	Elite
50	Dr. Poonam Choudhari	Introduction to Large Language Model	Elite
51	Dr. Poonam Choudhari	Foundations of Deep Learning :Concepts and Applications	Elite
52	Prof. Rahul Kumar Majhi	Introduction to Theory of Computation	Elite
53	Dr. Poonam Choudhari	Python for Data Science	Elite 69%
54	Prof. Sapna Lonare	Neural Networks for Computer Vision and Natural Language Processing	Awaited

Faculty Development Programs Attended

We are delighted to witness the tremendous participated of our faculty members is different FDP at different prestigious institutes.

S.No	Faculty Name	FDP Title	Organizing Body
1	Dr. Sushil Kumar	Addressing Defamation Claims in the Age of Deepfake: Protecting Security & Privacy in Democratic India	AICTE, Skill India, ATAL, RGPV
2	Prof. Arbind Kumar Singh	Exploring AI Landscape in Multidisciplinary Contexts	IEEE KOLKATA SECTION
3	Dr. Priyanka Asthana	(Workshop) Smart Healthcare Using IoT: Real-Time Health Monitoring Systems in Hindi language	AICTE
4	Dr. Priyanka Asthana	Agentic AI: Designing Autonomous and Responsible Systems	Atal
5	Prof. Ashish Dubey	Introduction to Machine Learning	AICTE
6	Prof. Arbind Kumar Singh	Introduction to Machine Learning	AICTE
7	Prof. Satyendra Vishwakarma	Cyber Secure Threat intelligence	AMITY University
8	Prof. Satyendra Vishwakarma	Intelligent Systems and generative AI	Andhra Loyola Institute of engineering
9	Prof. Satyendra Vishwakarma	Cybersheild 360°- A comprehensive workshop on cyber security	MES SENIOR COLLEGE PUNE
10	Prof. Satyendra Vishwakarma	Transforming Healthcare	IES Bhopal
11	Dr. Anju Singh	Gengeo:Synergising Generative AI, GIS and smart Technologies for sustainable Agriculture	AICTE(ATAL)
12	Dr. Anju Singh	Exploring AI landscape in multidisciplinary contexts	IEEE Kolkata section

13	Prof. Mohnish Patel	Emerging Trends and Applications in Artificial Intelligence and Data Science	AICTE Training and Learning (ATAL) Academy
14	Prof. Satyendra Vishwakarma	Advanced manufacturing for industry 4.0	United College Of Engineering Reasearch
15	Prof. Satyendra Vishwakarma	Addressing Defamation Claim in the age of Deepfake	RGPV BHOPAL
16	Prof. RAHUL SAINI	Addressing Defamation claim in the age of deepfake	ATAL AICTE, Skill India, ATAL, RGPV
17	Prof. Mohnish Patel	Emerging Trends and Applications in Artificial Intelligence and Data Science	AICTE Training and Learning (ATAL) Academy
18	Prof. Mohnish Patel	Cyber Security & Applications	AICTE Training and Learning (ATAL) Academy
19	Prof. Sapna Lonare	Empowering Research and Innovation through IPR, ICT and RM for Academic Excellence	SIRTE
20	Dr. Devendra Singh Rathore	Secure and Explainable Generative AI for Medical IoT Data Analytics	ATAL FDP
21	Dr. Devendra Singh Rathore	AI in Healthcare & Biomedical Imaging	ATAL FDP
22	DR. Aakriti Jain	AI in Healthcare & Biomedical Imaging	ATAL FDP
23	DR. Aakriti Jain	Quantum Computing	ATAL FDP
24	Dr. Huma Gupta	AI in Healthcare & Biomedical Imaging	ATAL FDP
25	Dr. Devashri Deoskar	AI in Healthcare & Biomedical Imaging	ATAL FDP
26	Dr. Puneet Nema	Addressing Defamation Claim in the age of Deepfake	AICTE Training and Learning (ATAL) Academy
27	Dr. Poonam Choudhari	Exploring AI Landscape in Multidisciplinary Contexts	IEEE Kolkata Section

28	Dr. Devendra Singh Rathore	Next-Generation Healthcare: Integrating IoT and AI for Predictive Diagnostics and Monitoring	AICTE Training and Learning (ATAL)
29	Prof Jitendra Kumar	Enabling Inclusive and Responsible Artificial Intelligence in Education and Industry	AICTE Training and Learning (ATAL)
30	Dr. Subodhini Gupta	Addressing Defamation Claims in the Age of Deepfake: Protecting Security & Privacy in Democratic India	AICTE Training and Learning (ATAL)
31	Prof. Sanjay Kumar Gupta	AI for All Enabling Inclusive and Responsible Artificial Intelligence in Education and Industry	AICTE Training and Learning (ATAL)
32	Prof. Hitesh Gupta	Addressing Defamation Claims in the Age of Deepfake: Protecting Security & Privacy in Democratic India	AICTE Training and Learning (ATAL)
33	Dr. Puneet Nema	Generative AI – Democratization of AI, Responsible AI	AICTE Training and Learning (ATAL) Academy
34	Dr. Anju Singh	Digital application fundamentals at nasscom	ATAL
35	Dr. Anju Singh	Impact and influence of AI in the age of Generative and agentic AI	Organised by department of computer science Sister Nivedita university

36	Dr. Sadhna K. Mishra	Digital Application Fundamentals	AICTE Training and Learning (ATAL) Academy
37	Dr. Poonam Choudhari	Impact and influence of AI in the age of Generative and Agentic AI	Sister Nivedita University, India
38	Prof. Sapna Lonare	5 days Faculty Updation Program on -Cyber forensic: Digital Evidence Acquisition And analysis	MANIT ,Bhopal
39	Dr. Sourabh Singh	Blockchain and its Applications	NPTEL