



MANIPAL UNIVERSITY
JAIPUR



Accredited with
NAAC A+ Grade
with 3.28 Score



Rankings 2024
University: 64 | Engineering: 64
Management: 73 | Law: 29
Architecture: 33

NEWSLETTER

"EduJunction"

APR - JUNE '25

VOLUME 2 ISSUE 2

DEPARTMENT OF DATA SCIENCE AND ENGINEERING



"Information is the oil of
the 21st century, and
analytics is the
combustion Engine"

Peter Sondergaard
(Senior Vice President and the
Global Head of Research at Gartner
Inc)

HIGHLIGHTS

1. Introduction to Department
2. Industry expert interaction
3. Student Achievements
4. Adjunct Faculty
5. Academic/Industrial MOU
6. Book Launch
7. Upcoming Events

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ASSOCIATE DEAN, SCSE, MUJ

Welcome to the third edition of "EduJunction," the official newsletter of the Department of Data Science and Engineering (DSE), School of Information, Security, and Data Science (SISDS), MUJ. This edition highlights the latest achievements, events, and innovations from our faculty and students. Established in 2021 under the School of IT, the DSE department was created to meet the growing demands and trends of the tech industry. We are committed to advancing the frontiers of Data Science, Artificial Intelligence, and Machine Learning through research, education, outreach, and collaboration. With a diverse team of experts, vibrant academic programs, exciting internships, and competitive opportunities, we provide a dynamic environment for both undergraduate and postgraduate students.



DR. AKHILESH KUMAR SHARMA
HEAD OF DEPARTMENT, DSE

Data Science is an interdisciplinary field that combines tools and methods from applied statistics, mathematics, and computer science to analyze large volumes of data, providing deeper insights and enabling smarter, data-driven decisions across various domains. The DSE program curriculum is carefully designed to equip students with strong foundations in these areas, emphasizing both theoretical knowledge and practical skills. It ensures hands-on learning through labs and real-world applications using cutting-edge technologies. I extend my heartfelt congratulations and best wishes to every stakeholder of the Department of DSE and the entire editorial team on the successful launch of their first newsletter, "EduJunction."

INTRODUCTION

B.Tech Computer Science and Engineering (Data Science) trains engineering graduates to be skilled data scientists. The emphasis is on core data science subjects along with the related computational mathematics, statistics, and computer science subjects.

The program introduces students to the various application domains like finance, business, and healthcare wherein data science can be used to make informed decisions.

The course is a multi-campus model and promotes one-semester mandatory student mobility in 4/5/6th semester, between the MAHE Manipal, Manipal University Jaipur, and Sikkim Manipal Institute of Technology campuses. It is an eight-semester programme that helps software and IT professionals build the skillset required to advance their careers as Data Analysts, Data Engineers, Data Architects, and Data Scientists, among other roles. The programme covers fundamental to advanced skill and knowledge areas.

Data science is the field in which various tools and methods from the fields of applied statistics, mathematics, and computer science are applied in order to gain greater insight and to make better and more informed decisions for a variety of purposes by analyzing a large amount of data.

VISION

To prepare the next generation of practitioners and researchers with human values and ethics to thrive in a data-centric world.

MISSION

- To establish the department as the epitome of motivation and guidance among aspiring engineers.
- To nurture academic, research, and professional excellence in the domain of Data Science and engineering.
- To transform young learners into competent data engineers by inculcating holistic values

ACADEMIC PROGRAMS

- B.Tech Computer Science and Engineering (Data Science)
- M.Tech (Data Science)
- Ph.D

FACULTIES

- | | | |
|--|-------------------------|---|
| • Prof. (Dr.) Akhilesh Kumar Sharma(HoD) | • Dr. Ginika Mahajan | • Dr. Malvinder Singh Bali |
| • Dr. Sukhwinder Sharma | • Dr. Shitanshu Jain | • Ms. Meenakshi Gaur |
| • Dr. Aprna Tripathi | • Mr. Deevesh Chaudhary | • Dr. Srikanta Pradhan |
| • Dr. Rekha Chaturvedi | • Dr. Gaurav Kumawat | • Dr. Ashish Pandey |
| • Dr. Chirag Joshi | • Mr. Abhishek Dwivedi | • Dr. Neeraj Kumar Verma |
| • Dr. Anju Susan George | • Dr. Shweta Redkar | • Mr. Ram Kumar Yadav |
| • Dr. Sudhir Sharma | • Ms. Shatabdi Basu | |
| • Dr. Neha V Sharma | | • Dr. Sandeep Kumar Gupta (Associate Professor of Practice) |

INDUSTRY EXPERT INTERACTION



The Dept. of Data Science and Engineering, Manipal University Jaipur was thrilled to host Mr. Prakash Panigrahi for expert lecture on "Cyber Security Services in Industry". This session aimed to provide students with practical exposure to real-world cyber threats, security architecture, and modern defense mechanisms employed in various industrial sectors. A heartfelt thank-you to Prakash Panigrahi for this inspiring session!

The Dept. of Data Science and Engineering, Manipal University Jaipur was thrilled to host Mr. Om Jadhav, Principal Technical Officer (Scientist – D), C-DAC, Government of India, Pune for expert lecture on "Introduction to Tiled Matrix Operations in Parallel Programming". The expert explained how breaking down large matrix computations into smaller, cache-friendly tiles can lead to significant improvements in performance, especially on multi-core processors. Real-world applications and case studies were presented to demonstrate how these concepts are applied in industry, particularly in scientific computing, artificial intelligence, and data-intensive applications.. A heartfelt thank-you to Mr. Om Jadhav for this inspiring session!



The Technology Behind LLMs (Chatgpt, Claude or Gemini)

Empowering You with AI Expert

9 April, 2025

05.15 PM – 6:00 PM

Online – MS Teams

Expert Lecture



Mr. Vansh Soni
Founder Botosynthesis
AI Consultant

The Dept. of Data Science and Engineering, Manipal University Jaipur was thrilled to host Mr. Vansh Soni for expert lecture on "THE TECHNOLOGY BEHIND LLMs (CHATGPT, CLAUDE, OR GEMINI): EMPOWERING YOU WITH AI". He shared insights into the functioning of LLMs, their architecture, and their impact across industries. The speaker highlighted the evolution of AI from rule-based systems to generative models and discussed how LLMs like ChatGPT, Claude, and Gemini are transforming communication, education, and business automation. A heartfelt thank-you to Mr. Vansh Soni for this inspiring session!



STUDENT ACHIEVEMENTS



Mr. Utkarsh Somvanshi was part of Invent for Scholars is a program by SAP Labs India that offers a month-long fellowship for scholars to work on real-world business challenges using AI. This year's theme is Generative AI, and scholars work on various projects across different lines of business within SAP. The program provides scholars with hands-on experience, mentorship, and opportunities to learn from industry experts, culminating in a final showcase of their work.

We are thrilled to announce that Vishrut Mishra, student of Dept. of Data Science & Engineering, has won a silver medal in the 9th Ranking Championship in the "one-lap road event" held in Kolkata, India, organised by the Roller Skating Federation of India (RSFI).

A moment of immense pride for the MUJ, and we heartily congratulate Vishrut for his dedication, talent, and outstanding performance!



The Department of Data Science and Engineering extends its heartfelt congratulations to Mr. Utkarsh Somvanshi on the publication of his insightful article on Medium, titled "Mutation Testing in Java: Are Your Tests Good or Just Lucky?"

Your work reflects a strong grasp of advanced testing methodologies and a commendable ability to communicate complex technical concepts with clarity. It is always encouraging to see students and researchers from our department contribute meaningfully to the broader tech community.

We are proud of your achievement and look forward to more such contributions in the future. Keep up the excellent work!

Link: <https://medium.com/@2024sl93081/mutation-testing-in-java-are-your-tests-good-or-just-lucky-8f219e7950f9>



ADJUNCT FACULTY



Dr. Ramakrishna Mundugar is an experienced researcher with nearly 15 years of expertise in designing and developing algorithms in Computer Graphics, Video Processing, and Computer Networks. He has worked with leading multimedia research groups in both academia and industry in Germany and the United Kingdom. Dr. Mundugar holds a PhD in Multimedia Processing and Streaming from Manipal Academy of Higher Education, an Institute of Eminence (IoE) recognized by the Government of India. Additionally, he has significant experience in internationalizing academic programs, including dual degree, integrated, and student mobility programs.

Dr. Bhargavi Goswami is a seasoned researcher with over 11 years of research experience and 13 years in teaching, specializing in Computer Science, Communication Networks, Network Security, and Algorithm Design. She holds 2 patents, has authored 2 monographs, led 2 funded research projects, and has contributed to over 50 journal and conference publications, with more than 600 citations. Her research expertise spans Smart Grids, Software Defined Networks, Blockchain, Cryptography, Cybersecurity, Mathematical Modeling, and Congestion Control in Data Networks. Recognized as an ethical technologist and a prominent figure in education, research, and development, she is currently teaching at Queensland University of Technology (QUT).



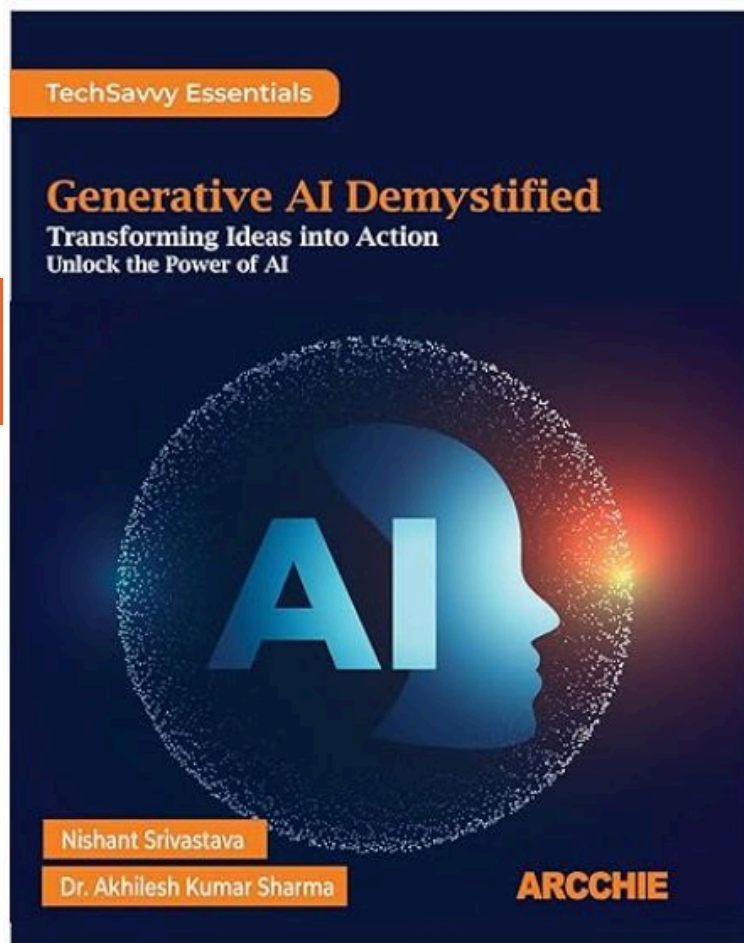
ACADEMIC/INDUSTRIAL MOU

An academic MoU establishes a formal partnership between two or more academic institutions for the purpose of collaboration in research, education, training, or other areas of mutual interest. An academic MoU can also facilitate the exchange of faculty, students, information, and resources between the partner institutions.

- **King Mongkut's University of Technology North Bangkok, Bangkok, Thailand**
- **Prince Sultan University, Riyadh, Saudi Arabia**
- **Lyzer.AI**
- **Altair Pvt. Ltd.**
- **Celebal Technologies Private Limited, Jaipur**
- **La Trobe University, Victoria, Australia**



BOOK LAUNCH



Dept. of DSE, MUJ thrilled to announce the release of new book: "Generative AI Demystified: Transforming Ideas into Action" Authored by Prof. (Dr.) Akhilesh Kumar Sharma (HoD, DSE, MUJ) and Nishant Srivastava (Solution Architect, Microsoft Global Engineering and Architecture Group).

As Generative AI rapidly transforms the way businesses think, build, and innovate, this book is designed to be your practical guide through the evolving AI landscape.

Book Link: <https://lnkd.in/g8CkkeFF>

FACULTY DEVELOPMENT PROGRAM

We are proud to announce the successful completion of our 5-day Faculty Development Programme (FDP) cum Industrial Training on "Insights for Data and Business Analytics 2.0," organised in collaboration with MUJTEC.

This transformative program bridged the gap between academia and industry, offering valuable insights into the latest advancements in Artificial Intelligence, data analytics, and no-code platforms.

📌 Program Highlights:

- ✓ AI Around Us, Foundations of AI, and AI Project Life Cycle, No Code Capstone projects—Dr. Manoj Manuja, Founder & CEO, Mystik Minds
- ✓ Recent Trends in Data Analytics & BI—Phayung Meesad, King Mongkut's University of Technology North Bangkok.
- ✓ Agentic AI and Digital Twins for Businesses—Nalika Ulapane, La Trobe University, Australia
- ✓ Altair RapidMiner AI Studio and Tools (Panopticon & Monarch)—Mr. VivekRaj, Solution Engineer, ALTAIR

MANIPAL UNIVERSITY JAIPUR **ALTAIR** **INSTITUTION'S INNOVATION COUNCIL**

Dept. of Data Science and Engineering & Dept. of Information Technology
School of Computer Science and Engineering
In Collaboration with MUJTEC

5 Days FDP cum Industrial Training

Insights for Data and Business Analytics 2.0

19th - 23rd May, 2025 9:30 am - 4:30 pm Data Science Lab No. 001, 2AB, Lower Ground Floor

Data Analytics & AI Platform	Altair RapidMiner AI Studio	No Code AI Capstone Projects	AI in Mechanical, Civil, Agriculture & Pharmaceutical etc.	Hands-on Projects
Resource Persons				
 Dr. Manoj Manuja Founder & CEO Mystik Minds, India	 Prof. Dr. Phayung Meesad King Mongkut's University of Technology North Bangkok	 Dr. Nalika Ulapane La Trobe University Melbourne, Australia	 Mr. Vijay Raj Solution Engineer Altair, India	
Organizers	Dr. Akhilesh Kr. Sharma HoD, Dept. of DSE	Dr. Pratistha Mathur HoD, Dept. of Information Technology	Scan QR for Registration*	
Conveners	Mr. Deevesh Chaudhary	Mr. Rohit Kumar Gupta	Dr. Aprna Tripathi	

*Limited Seats





UPCOMING EVENTS



2nd International Conference on Innovations in Data Science (ICIDS - 2025)

20 - 21 November 2025

CALL FOR PAPERS

CONFERENCE TRACKS

- Data Science in Medicine
- Data Science in Autonomous Systems
- AI and Machine Learning Advances
- Deep Learning and Data Science
- Big Data Technologies and Applications
- Computer Vision and Image Analysis

IMPORTANT DATES

Full Paper Submission	30 September 2025
Acceptance	10 October 2025
Registration on or Before	30 October 2025

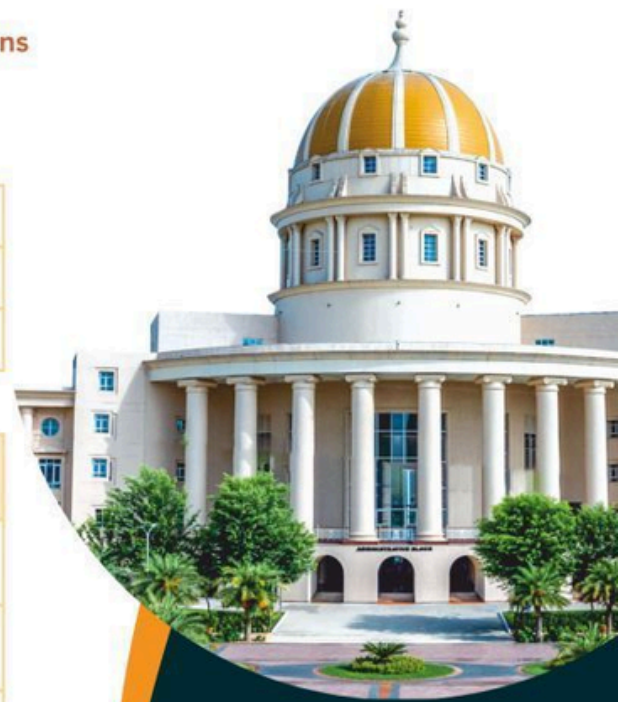
REGISTRATION FEE

Category	Authors from India	Authors from Abroad
Research Scholar and Student	₹10000	\$300
Academician (Faculty)	₹12000	\$350
Industry Professional	₹18000	\$400
Co-Author Registration	₹4000	\$100

MORE INFORMATION

- <https://icids.in/>
- icids2k24@gmail.com

Scan to Submit Your Paper



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Data Science and Engineering

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Jaipur, Rajasthan, India

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