Manipal University Jaipur

Dept. of Data Science and Engineering

Official Newsletter

MANIPAL UNIVERSITY JAIPUR

Welcome Message

Director (SISDS)   **HoD (DSE)**

"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)

Welcome to the third edition of the newsletter "*EduJunction*"of the Department of Data Science and Engineering, School of Information, Security and Data Science, MUJ. It gives us great pleasure to highlight some of the fascinating advancements and successes in the field of data science and engineering that our faculties and students achieved.

Dept. of Data Science and Engineering formed in 2021 under school of Information Technology keeping in mind the current advancement and trend in the IT industry throughout the years.

At the Department of DSE, we are committed to advancing the frontiers of Data Science, Artificial Intelligence and Machine Learning in terms of research, education, outreach and collaborations. Our faculty consists of outstanding specialists in a variety of Data Science fields, making us a diversified and capable team. Along with cutting-edge research initiatives, internships, and competitions, we also offer a thriving and dynamic environment to students seeking undergraduate and graduate degrees in data science. This newsletter contains the most recent information about department's accomplishments, activities, news and the latest happening events at SISDS(DSE) MUJ.

~ Dr. Sumit Srivastava, Director, (SISDS), MUJ

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.

The curriculum of the DSE program is designed to provide students with the fundamentals of applied statistics, applied mathematics, and computer science that are required in the context of data science and its applications. Additionally, the DSE program places a significant emphasis on students gaining hands-on experience through the use of practical, labs, and the experience of dealing with cutting edge technology that are relevant to the real world.

I congratulate and convey my best wishes to every stockholder of Department of DSE and the entire editorial team on the launch of their first newsletter "EduJunction".

~ Dr. Akhilesh Kumar Sharma, HoD, Dept of DSE

Highlights

- Introduction to DSE Dept.
- Mission & Vision
- Academic programs
- Faculty Details
- Anova Club
- Industrial Visit
- ACM Community
- Academic MoUs
- Students Achievements
- Editor's Choice Student Article

Chief Editor:
Dr. Akhilesh Kumar Sharma, HoD, Dept. of DSE

Editor:
Mr.Deevesh Chaudhary
Assistant Professor, Dept. of DSE

Student Editor:
Rashika Ranjan and Rajveer Singh

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

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

Program Educational Objectives (PEOs)
- **PEO1:** Graduates will follow analytical, problem solving and research-oriented approaches for solving real-world problems by providing AI based solutions.
- **PEO2:** Graduates will continue the process of lifelong learning by attaining professional certificates and seeking higher education.
- **PEO3:** Graduates will demonstrate the ability to establish, lead, and manage entrepreneurship ventures and startups in the field of Artificial Intelligence and Machine Learning.

Faculties of Department of DSE

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

Student Achievement:

Vishrut Mishra, Dept. of Data Science Engineering, MUJ bring laurels with his amazing speed while securing Gold medal @State level speed skating 200mt. track event in above 17 boys at Satna, MP organised by Roller Skating Federation of India.

ROCS: Research opportunities in Computer Science

Dept. of Data Science & Engineering in collaboration with ACM chapters of Manipal University Jaipur conducted an event "ROCS: Research opportunities in Computer Science" on 23 Nov 2024 in Dr. Sharda Pai Auditorium,MUJ. The talk was delivered by various eminent professors form IIT's and other institutes.

'Project Expo 2024'

The Department of Data Science & Engineering, School of Information, Security, and Data Science at Manipal University Jaipur, in collaboration with E-Cell and technically supported by ACM, hosted the Project Expo'24 Competition on November 7, 2024. The event witnessed by enthusiastic student participation, with students receiving valuable feedback by industry experts on their projects.

International Symposium of Data Science 2024 (ISDS'24)

Glimpses of Inauguration ceremony for Second International Symposium of Data Science 2024(ISDS'24). Dept. of Data Science & Engineering, SISDS, MUJ. It's great pleasure to welcome keynote speakers Dr. Manoj Manuja, Mr. Saurabh Ganeriwala, Dr. Amit Sangroya and Dr. Padmanabha Venkatagiri along with MUJ leadership Dr. Karunakar A Kotegar(Pro President, MUJ) and Dr. Kuldip Singh Sangwan(Dean, FoE).

International Conference of Innovations in Data Science 2024(ICIDS 2024)

Dept. of Data Science and Engineering, SISDS announces International Conference of Innovations in Data Science 2024(ICIDS 2024).
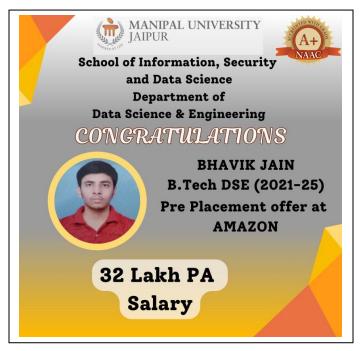
Industrial Visit

Not only student but faculties hard work also pays off. Faculty of Data Science and Engineering Dr. Shitanshu Jain, Dr. Aprna Tripathi and Ms. Meenakshi Gaur along with HoD Dr. Akhilesh Kumar Sharma visited Altair Software, New Delhi, India to understand the market needs and new software from data science engineering perspective. The visit is a step forward to fill academia and industry gap and help out students get insights of market perspective.
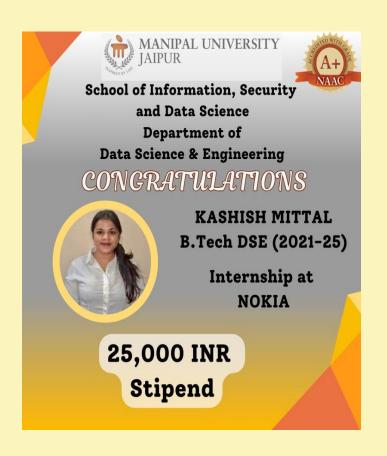
Student Excellence Awards

Students' excellence award ceremony was conducted on 14th November 2024. The Data Science Department celebrates Children's Day by honouring their students with the Student Excellence Award.

Internships & Placements

MANIPAL UNIVERSITY JAIPUR

School of Information, Security and Data Science
Department of Data Science & Engineering

CONGRATULATIONS

BHAVIK JAIN
B.Tech DSE (2021-25)
Pre Placement offer at AMAZON

32 Lakh PA Salary

MANIPAL UNIVERSITY JAIPUR

School of Information, Security and Data Science
Department of Data Science & Engineering

CONGRATULATIONS

Bhavik Jain
B.Tech DSE (2021-25)

Internship at AMAZON

1,00,000 INR Stipend Per Month

MANIPAL UNIVERSITY JAIPUR

School of Information, Security and Data Science
Department of Data Science & Engineering

CONGRATULATIONS

KASHISH MITTAL
B.Tech DSE (2021-25)

Internship at NOKIA

25,000 INR Stipend

MANIPAL UNIVERSITY JAIPUR

School of Information, Security and Data Science
Department of Data Science & Engineering

CONGRATULATIONS

ANAHITA SAXENA
B.Tech DSE (2021-25)
Internship & Placement Pentair Water India Pv Ltd

9.5 Lakh PA Salary

"Aim for simplicity in Data Science. Real creativity won't make things more complex. Instead, it will simplify them" - Damian Duffy Mingle

Industrial MoU

An enriching MOU signing ceremony, "Industry Connect with **Lyzr.AI**," was held at Manipal University Jaipur**,** organized by the Department of Data Science and Engineering in association with E-cell on 30 September 2024. This event featured two esteemed speakers from **Lyzr. AI**. **– Olivia Deka (Director of Community)** and **Raswanth Shankar (AI Engineer)** gave insights on entrepreneurship, innovation, and skill building. The event focused on allowing the students to explore the possibilities of the latest technologies to innovate using Lyzr.AI platforms.

Faculty Achievement

Dr. Akhilesh Kumar Sharma, Professor, Dept. of DSE, received teaching excellence award named as 'गुरु वन्दन छात्र अभिनंदन कार्यक्रम- 2024 from Bharat Vikas Parishad Jaipur Divison, Rajasthan. on October 16, 2024 at Teacher's training institute Jaipur(Rajasthan)

Faculty Achievement

Mr. Gaurav Kumawat, Assistant Professor, along with Dr. Akhilesh Kumar Sharma (HoD), Dept. of Data Science and Engineering attended Third world conference on Information Systems for Business Mangement held in Thailand on 12-13 sept 2024.

ANOVA Technical Club

ANOVA Student Data Science Club is a student-led technical club of Manipal University Jaipur. ANOVA, is a place where curiosity meets computation and where possibilities are as limitless as the data one can explore. The club focuses on fostering interest, knowledge, and practical skills related to data science and analytics among students.

Students Scholarship

Students of DSE Dept. have received following scholarship scheme by MUJ for year 2024-25.
- TMA Pai Merit Scholarships
- Scholarships for the Wards of Single Mother Scholarships for Students of Higher Semesters

Academic MoUs

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, SaudiArabia
- Lyzr.AI
- Altair Pvt. Ltd.
- Celebal Technologies Private Limited, Jaipur
- La Trobe University, Victoria, Australia

Students Achievement

Jatin Khiyani, student of III semester, dept. of Data Science and Engineering received award named as 'गुरु वन्दन छात्र अभिनंदन कार्यक्रम- 2024 from Bharat Vikas Parishad Jaipur Divison, Rajasthan. on October 16, 2024 at Teacher's training institute

Ms. Parisa Magoon secured second position in Squash Event in Astra Sports Fest held at IIITD 2023.

Publications*:

Journal Publications   : Q1(7), Q2(4), Q4(2)
Conference Publications : 8(Scopus), 5(Non-Scopus)
*(Jan 2024 – Sept 2024)

Patents Published : 10
Patents Granted   : 2

"Data and data science greatly influence everything we do...The impact that data has and will have...continues to grow every day." - Ronald van Loon

Keynote Speakers

Mr. Saurabh Ganeriwala
Chief Business Officer - Mynd Integrated Solutions Pvt. Ltd. Gurugram, INDIA

Dr. Phayung Meesad
Associate Professor, FoIT & Digital Innovation, KMUTNB, Bangkok, THAILAND

Dr. Amit Sangroya
Scientist, TCS Innovation Labs Gurugram, INDIA

Prof. Himanshu Rai
Director, Indian Institute of Management Indore, INDIA

Thought Leaders

Dr. Sudip Misra
Professor, Indian Institute of Technology, Kharagpur

Dr. Ravinder Ahuja
Data Science Manager, Evalueserve Pvt. Ltd. Gurugram

Dr. Gayatri Prasad
Information Security Manager, Kinetic IT, Australia

Dr. Naveen Chilamkurti
Associate Dean, La Trobe University, Australia

Patrons

Chief Patron
Mr. S Vaitheeswaram, Chairperson, MUJ

Patron
Dr. N N Sharma, President, MUJ

Co-Patron
Cmde. (Dr.) Jawahar M Jangir, Pro-President, MUJ

Co-Patron
Dr. Nitu Bhatnagar, Registrar, MUJ

Co-Patron
Dr. Kuldip Singh Sangwan, Dean, FoE, MUJ

Chairs

Dr. Sumit Srivastava
Director, SISDS

Dr. Akhilesh Kumar Sharma
Head, Dept. of DSE

Conveners

Dr. Aprna Tripathi
Associate Professor, Dept. of DSE

Dr. Sukhwinder Sharma
Associate Professor, Dept. of DSE

Student Coordinator(s)

Mr. Kuljeet Singh Shekhawat
Student

Publication

All registered and presented papers will be published in ISBN proceedings.

Few selected papers, which meet the requirements, will be published in Special Issues under Asian Journal of Computer Science and Technology (AJCST) and Asian Journal of Electrical Sciences (AJES) free of cost.

MANIPAL UNIVERSITY JAIPUR
(University under Section 2(f) of the UGC Act)

Second International Symposium on Data Science – 2024
(7-8 November 2024)

Organized By
Department of Data Science & Engineering
(School of Information, Security and Data Science)
Manipal University Jaipur

in Association with
MUJ ACM Student Chapter

Manipal University Jaipur
Jaipur-Ajmer Express Highway, Dehmi Kalan, Near GVK Toll Plaza, Jaipur, Rajasthan - 303007

www.jaipur.manipal.edu

About University

Manipal University Jaipur (MUJ) is a premier institution known for its commitment to academic excellence and innovation. Established as part of the Manipal Education Group, MUJ offers a diverse range of undergraduate, postgraduate, and doctoral programs across various disciplines. The university boasts state-of-the-art infrastructure, a vibrant campus life, and a strong focus on research and industry collaboration. With a commitment to holistic education, MUJ nurtures future leaders and professionals, fostering a culture of creativity, critical thinking, and lifelong learning.

About School and Department

The School of Information, Security and Data Science at Manipal University Jaipur is a dynamic academic center dedicated to advancing knowledge in information technology, data science and cybersecurity. State-of-the-art facilities, industry partnerships, and research-driven education empower students to tackle real-world challenges in data science, security and analytics. Graduates are equipped to lead and innovate in the rapidly evolving tech landscape.
The Department of Data Science & Engineering at Manipal University Jaipur is a pioneering hub for education and research in data science, artificial intelligence, and machine learning. With a forward-thinking curriculum and state-of-the-art laboratories, the department equips students with the skills and knowledge needed to excel in data-driven fields.

About MUJ ACM Student Chapter

The MUJ ACM Student Chapter at Manipal University Jaipur is a vibrant community that fosters innovation, collaboration, and skill development in computing and technology. It provides students with opportunities to engage in workshops, hackathons, and tech talks, enhancing their knowledge, networking, and career prospects in the tech industry.

About Symposium

The symposium offers aspiring data scientists and statisticians a platform to exchange ideas with experts from academia and industry. Participants will engage in knowledge sharing that may inspire future technological innovations in collaboration with global partners. The event aims to tackle real-world challenges across various sectors, turning problems into opportunities. It will also raise awareness among engineering students about applying their skills to scientific research and growing markets, while helping young researchers enhance their thinking, technical writing, and problem-solving abilities.

Call for Papers

Contributions are sought in the following areas (not limited to):
- Computational Statistics
- Database Systems, Data Warehousing, and Data Mining
- Machine Learning
- Data analytics and Visualization
- Software & Data Science Technologies
- Communication Networks and Signal Processing
- Networks and Security
- Embedded Systems and Internet of Things
- Computer Vision and Image Processing
- Cloud Computing
- Big Data Analytics
- Artificial Intelligence
- Deep Learning

Best Paper Award for Each Session

Contact Us

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  sukhwinder.sharma@jaipur.manipal.edu
- **Mr. Kuljeet S. Shekhawat** (+91-9330168199)

Important Dates

Last Date for Paper Submission:	12-10-2024
Notification of Acceptance:	18-10-2024
Registration Start Date:	20-10-2024
Last Date for Registration:	25-10-2024
Last Date for Camera Ready Paper Submission:	30-10-2024
Conference Dates:	07-11-2024 to 08-11-2024

Author Guidelines

Authors are requested to follow the paper preparation and formatting guidelines available at link accessible through the following QR Code:

Paper Submission

Scan the QR Code for submission of your paper (prepared and formatted as per Author Guidelines):

Registration Fee & Payment Link

Category	Indian Author		Foreign Author
	MUJ	Non-MUJ	
IEEE/ACM Member	Rs. 300/-	Rs. 400/-	USD 25$
Others	Rs. 400/-	Rs. 500/-	USD 35$

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