The DataSphere logo is located on the left side of the header. It consists of three overlapping circles in a light blue color.

DataSphere

Department of CSE- Data Science

Session 2025-26

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY
NH 58, Delhi-Roorkee Highway, Baghpat Bypass Road Crossing,
Meerut, Uttar Pradesh 250005

Table Of Content

01.

CHAIRMAN MESSAGE

A visionary note highlighting the commitment to academic excellence and the future of data-driven innovation.

02.

VICE CHAIRMAN MESSAGE

A visionary leadership, MIET empowers young minds through academic excellence, innovation, and industry-driven education

03.

DIRECTOR MESSAGE

Insights on nurturing talent, fostering research, and preparing students for global opportunities in data science.

04.

DEAN CSE(ALLIED) MESSAGE

A visionary message highlighting the institution's commitment to academic excellence, innovation, and holistic student development.

05.

HOD MESSAGE

A guiding message reflecting the department's dedication to growth, innovation, and collaborative learning.

06.

EDITORIAL DESK

An overview of this edition, celebrating achievements, research, and creative expressions of our data science community.



Table Of Content

07.

PLACEMENT RECORD

Showcasing outstanding placement results that reflect industry trust and the professional caliber of our students.

08.

ACTIVITY RECORD

Continuous learning is key to quality teaching. This section highlights the various Faculty Development Programmes attended and conducted by our department to stay updated with emerging technologies and pedagogical practices.

09.

GATE QUALIFER

Recognizing the exceptional students who brought laurels to the institute through academic excellence.

10.

FACULTY AND STUDENTS ACHIEVEMENT

A proud showcase of awards, recognitions, and impactful contributions by our faculty and students.

11.

ARTICLE FACULTY AND STUDENTS

Thought-provoking articles and research insights that capture the creativity, knowledge, and passion of our contributors.



Chairman's Message



Shri Vishnu Saran, B.E. (Mechanical), Chairman of MIET, has obtained his B.E. (Hons.) degree from NIT Kurukshetra and then served the state of Uttar Pradesh for over 37 years as Director of Boilers. He is a man with an extraordinary perception of a better tomorrow for each student who enters the premises of MIET through the provision of the best possible resources one could ask for. He is a visionary who is carrying on the dream philanthropic project nurtured by his father, the Founder-Chairman of MIET Group, the Late Sri CS Agarwal. He strongly believes and follows the four golden principles for success laid by the honorable Late Smt. Indira Gandhi ji – Foresight, Hard Work, Determination and Discipline.

The strength of MIET indeed lies in his grit & determination, the forceful support by his excellent subordinates, and the overall study orientation through multi-development policies that have distinctly made MIET a name brightening up in progression each year.

Mr. Shri Vishnu Saran
B.E. (Mechanical)

Meerut Institute of Engineering and Technology
NH 58, Delhi-Roorkee Highway, Baghpat Bypass Road Crossing, Meerut,
Uttar Pradesh 250005

Vice Chairman's Message



Dear Students,

At MIET, we believe in shaping not just careers, but character. Each one of you has the potential to create meaningful impact—through your ideas, actions, and commitment to excellence.

Stay curious, take initiative, and never hesitate to step beyond your comfort zone. Growth begins where fear ends, and every effort you make today builds your tomorrow.

Uphold integrity, respect others, and strive to contribute positively to society. The journey may be challenging, but it will always be rewarding.

We stand with you in your pursuit of success.

Best wishes for a purposeful and fulfilling future.

Er. Gaurav Agarwal
B. Tech. (E.E.) IIT Kanpur, M.S.
(EECS) UC Berkley, PGDM (Gold
Medalist) IIM Bangalore

Meerut Institute of Engineering and Technology
NH 58, Delhi-Roorkee Highway, Baghpat Bypass Road Crossing, Meerut,
Uttar Pradesh 250005

Director's Message



We, at MIET College strongly believe that the holistic development of students is possible by focusing on core areas which are Concept Based Learning and Comprehensive Industrial Exposure.

We offer 360-degree nurturing for overall grooming and developing global competency. We are committed to excellence through innovations in the teaching and learning process and have been successful in maintaining high academic standards by taking appropriate steps to bridge the gap between industry and academia.

With the advent of new technologies, it is the responsibility of the academic sector to be upgraded as per the needs of the industry. The requirements and expectations of the industrial sector need to be identified and the grooming of students ought to be done accordingly by the academic institution.

Our institution is highly motivated and putting up sincere efforts in this direction. We have developed several state-of-the-art labs, Centres of Excellence (CoE), and Advanced R&D Labs and have signed a good number of MoUs with different industries at the College and Departmental Levels. Centres of Excellence are corporate training centres for renowned industries.

The students are provided with a cohesive platform to work on live industry-based projects. We are also engaged in providing hands-on training in the core and IT sectors and are highly motivated to bring the best out of our students.

We feel privileged to have world-class infrastructure and meticulous faculty and staff members who are committed to providing comprehensive development of students to groom them into successful engineers and empathetic human beings at large.

Prof. (Dr.) S.K. Singh
(Campus Director)

Meerut Institute of Engineering and Technology
NH 58, Delhi-Roorkee Highway, Baghpat Bypass Road Crossing, Meerut,
Uttar Pradesh 250005

Dean Message



It is a privilege to welcome you to this edition of our magazine. Our focus remains firmly on fulfilling the vision and mission of our department and institute by fostering both academic excellence and practical growth.

To ensure our students are industry-ready, we follow the best academic practices—blending hands-on learning with industry-relevant skills to secure top-tier placements. Alongside career readiness, we actively drive research, innovation, and development, supported by a dedicated Training and Placement Cell that bridges the gap between academia and industry.

We are deeply committed to meeting the expectations of all our stakeholders—students, parents, faculty, alumni, and industry partners. Together, we will continue to build a culture of excellence and innovation.

Warm Regards

**Prof. (Dr.) Gaurav Goel Associate
Dean, CSE-Allied PhD | ME (CSE) - Gold
Medalist | B.Tech (IT) | GATE Qualified
| Ex-Google (xWF)**



**Meerut Institute of Engineering and Technology
NH 58, Delhi-Roorkee Highway, Baghpat Bypass Road Crossing, Meerut,
Uttar Pradesh 250005**

Hod Message



Welcome to the Department of Data Science at Meerut Institute of Engineering and Technology (MIET). In an era driven by data and rapid technological advancements, the field of Data Science stands at the forefront of innovation and impact. Our department is dedicated to cultivating analytical minds with strong foundations in statistics, machine learning, artificial intelligence, and domain-specific applications.

We take pride in offering a curriculum that is both academically rigorous and industry-relevant, supported by a team of highly qualified faculty and a culture of continuous learning. Our programs are designed to prepare students for dynamic careers in data analytics, research, and emerging technologies through a balance of theoretical knowledge and practical experience.

The department actively promotes interdisciplinary research, innovation, and collaboration with leading industries and research institutions. We encourage our students to take on real-world challenges through projects, internships, and hackathons, fostering a problem-solving mindset and ethical responsibility.

We sincerely invite aspiring students to join MIET and take the first step toward becoming tomorrow's data-driven leaders and innovators.

Dr. Krishan Kumar Sharma
Associate Professor
&
HOD CSE-Data Science)



Meerut Institute of Engineering and Technology
NH 58, Delhi-Roorkee Highway, Baghpat Bypass Road Crossing, Meerut,
Uttar Pradesh 250005

Editorial Desk



Welcome to the Department of Data Science at MIET, where data is not just a resource—it is a catalyst for innovation, insight, and transformation. As the editorial desk, we are proud to present this booklet as a reflection of our department's commitment to cultivating analytical thinkers and future-ready professionals.

Our curriculum is designed to bridge the gap between theory and application, integrating core domains such as machine learning, artificial intelligence, data security, and visualization. Through interdisciplinary projects, industry collaborations, and hands-on training, we empower students to tackle real-world challenges with precision and purpose.

This edition captures the essence of our academic journey—from rigorous coursework and research initiatives to student-led hackathons and industrial internships. It is a celebration of the data-driven mindset that defines our department and the collaborative spirit that propels us forward.

We invite readers to explore these pages with curiosity and pride, and to witness how MIET's Data Science community continues to shape the future—one dataset at a time

Ms. Shivani Pandey
Assistant Professor
(CSE-Data Science)

Editorial Team

- 1. Bhumika**
(B.Tech CSE DS 3rd Year)
- 2. Saianshi Saxena**
(B.Tech CSE DS 3rd Year)



About the Program



About the Program

Data Science is a dynamic and interdisciplinary field that deals with extracting knowledge and insights from structured and unstructured data using scientific methods, processes, and algorithms. The domain of Data Science integrates various aspects of computing, statistics, and machine learning. It has revolutionized decision-making and innovation across sectors, with rapid advancements taking place constantly. This evolving field is creating exciting opportunities in research, business, and industry. To stay updated and skilled in this area is a continuous challenge for data science professionals. Developing such professionals who can tackle this challenge and reach great heights is our vision. The department is supported by highly qualified faculty with M.E. / M.Tech. degrees who are proficient in both theoretical concepts and practical applications. The department offers a balanced mix of academic courses and hands-on projects that empower students to align with current trends in data-driven industries. We are committed to creating an atmosphere that allows students to develop their abilities to the fullest. This is enabled through expert faculty guidance, year-round organization of workshops, seminars, industrial interaction, and various co-curricular & extra-curricular events.

Vision

To become a leading department in the nation that imparts quality education in Data Science, aligned with rapidly evolving technologies; and to produce globally competent graduates who are capable of embracing new challenges in the field of Data Science and analytics.

Mission

1. To provide quality education in the fundamental and applied areas of Data Science, and nurture students from all socio-economic backgrounds into globally competent data professionals.
2. To instill professional ethics, social responsibility, moral values, and entrepreneurial abilities among students.
3. To enhance students' analytical and research skills, encouraging them to explore innovations and adopt lifelong learning in the evolving field of Data Science.

Program Educational Objectives

- **PEO1:** Pursue their career in the field of Data Science Engineering and allied industries.
- **PEO2:** Pursue their carrier in higher education in Data Science Engineering and other Professional Courses.
- **PEO3:** Demonstrate the leadership skills and communicate effectively.
- **PEO4:** Apply their concept in solving engineering problems within realistic constraints such as social, environmental, ethical, health and safety.
- **PEO5:** Pursue their career as entrepreneur in related or any other field.

Program Specific Outcomes

- **PSO1:** Ability to apply and interpret computational ideas in algorithms, machine learning, Data Science, Data Management, Data Security, and Visualization to construct intelligent prediction models
- **PSO2:** Ability to use learnt concepts and abilities to deliver a quality product by applying standard practices and procedures of analytics, statistics, and machine learning ideas in order to find solutions to real-world business issues.
- **PSO3:** Ability to apply fundamental principles and emerging technology to innovative research activities, career opportunities, and a desire to further higher education.



Placement Record

TOP Highest Placement



Student Name	Organization Name	Pay Package
HARDIK KAPIL	Jyesta Corporate Entity!	9 LPA
MANISHA SHARMA	Jyesta Corporate Entity!	9 LPA
YASHASWI SHARMA	Jyesta Corporate Entity!	9 LPA
ISHANT SHARMA	MindSeekers	8 LPA
TANISHKA KUMARI	MindSeekers	8 LPA
SIDH JAIN	MindSeekers	8 LPA
VISHESH JINDAL	Deloitte	7.6 LPA
SATVIK VATS	Deloitte	7.6 LPA

Placement Record

TOP Highest Placement



Student Name	Organization Name	Pay Package
NIKSHY GOLIYAN	Deloitte	7.6 LPA
KRITIKA JINDAL	Deloitte	7.6 LPA
AYUSH SINGH	Deloitte	7.6 LPA
HARSHI RANI	Deloitte	7.6 LPA
AKASH	Deloitte	7.6 LPA
SNEHA KANSAL	Centilytics(Zarthi)	7.04 LPA
AAYUSH SHARMA	DeltaX	7 LPA

Our TOP Recruiters

Deloitte.

Centilytics

 **cognizant**

 **Lakshmi Kumaran
& Sridharan**
ATTORNEYS

 **TalentServe**

wipro

freecharge
by  **AXIS BANK**

tcs **TATA**
CONSULTANCY
SERVICES

 **accenture**

YHills
Learning Beyond Expectations

Activity Record

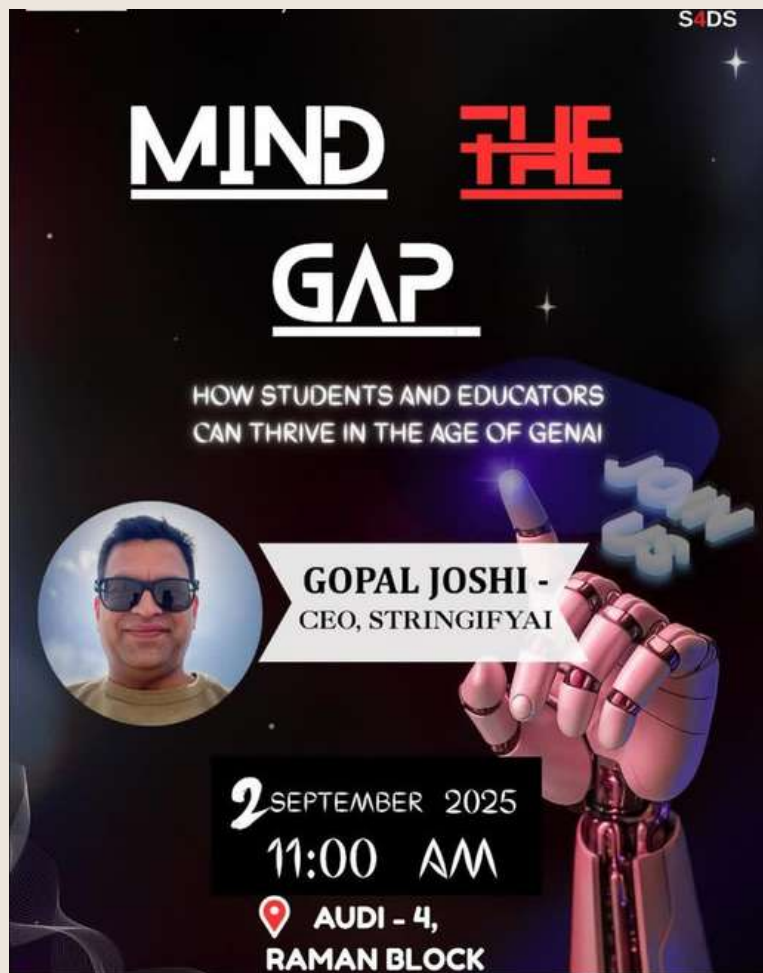
Project Expo 2026



The Project Expo 2026 at Meerut Institute of Engineering and Technology (MIET) was a vibrant celebration of student innovation, technical ingenuity, and interdisciplinary collaboration. Organized by the S4DS Socceity and Department of Computer Science & Engineering – Data Science, the event showcased a diverse array of student-led projects spanning Artificial Intelligence, Power BI, and Data Science, each addressing real-world challenges with creative and impactful solutions.

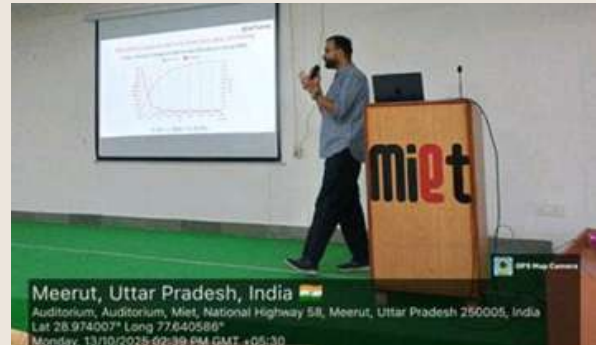


Events & Programs



The S4DS Society (B.Tech CSE–Data Science) organized a session on 2nd September 2025, welcoming back Mr. Gopal Joshi, MIET alumnus (Batch of 2004) and CEO of StringifyAI, for "Mind the Gap." Held at Audi-4 in collaboration with the IoT Club, the session explored how students and educators can thrive in the age of Generative AI, inspiring attendees to embrace innovation and bridge the gap between traditional learning and emerging tech.

Events & Programs



BHARAT Bitcoin – Technical Session on Blockchain and Digital Finance

On 13th October 2025, the S4DS Society hosted an engaging technical session titled "BHARAT Bitcoin," featuring Mr. Shivram Pande, Chief Business Officer at BitSave. Held at Audi-3 from 2:00 PM onwards, the session offered students valuable insights into Bitcoin's architecture, blockchain applications, and the growing opportunities in decentralized finance. Mr. Pande's talk shed light on how technology and financial freedom are shaping the future of digital finance in India, leaving attendees with a deeper understanding of the evolving crypto landscape and its real-world relevance.

Events & Programs



Alma-ConnectZ – Bridging Academia and Industry
On 13th February 2026, the S4DS Society organized "Alma-connectZ," an alumni interaction session aimed at bridging the gap between academics and industry. The event featured two distinguished MIET alumni — Vipush Manga, Analyst at Deloitte, and Adhiraj Pandey, Software Development Engineer (SDE) at Delhivery — who shared their industry experiences and insights with students, inspiring them to align academic learning with real-world career paths.

Events & Programs



Industrial Visit to C-DAC, New Delhi

On 20th February 2026, the CSE-Data Science Department of MIET, Meerut organized an industrial visit to C-DAC (Centre for Development of Advanced Computing), New Delhi. The visit gave students valuable exposure to advanced computing technologies, real-world applications, and industry practices, enriching their technical knowledge and strengthening the connection between academic learning and practical industry experience.

Events & Programs



Meerut Institute of Engineering & Technology
An Autonomous Institute

29 Years of Excellence

Department of CSE (DS) and CSE (IoT)



Organize an Expert Talk

**Beyond Automation:
Why Vertical AI is the Future
of Sustainable Industry**

Date: Monday 15 June, 2026

Time: 10:00 AM onwards

Resource Person
Mr. Pranjal Yadav
(Founder and CEO Ardra AI)

Venue: Raman Block, Audi-3, MIET, Meerut



Beyond Automation: Why Vertical AI is the Future of Sustainable Industry

On 15th June 2026, the Department of CSE-Data Science and CSE-IoT jointly organized a high-impact knowledge session titled "Beyond Automation: Why Vertical AI is the Future of Sustainable Industry." The session illuminated the transformative shift from generic horizontal workflows to deep, domain-specific vertical AI, equipping students with industry-aligned knowledge on ecological preservation, technological scalability, and industrial sustainability

GATE Qualifier



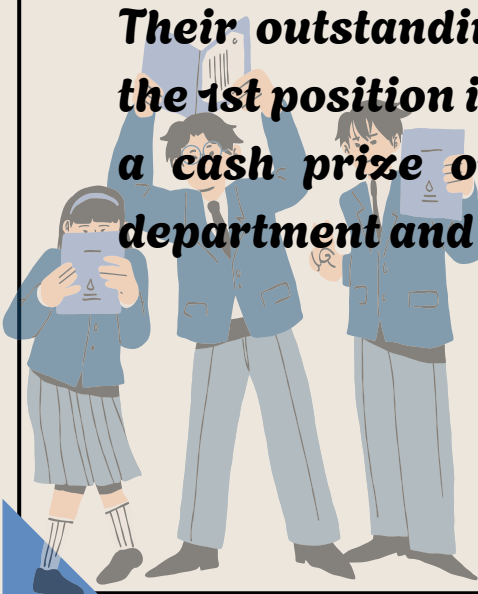
Tushar Mittal, a third-year student of the B.Tech CSE–Data Science department at MIET, achieved a remarkable academic milestone by qualifying the Graduate Aptitude Test in Engineering (GATE) in both Computer Science and Information Technology (CS) and Data Science and Artificial Intelligence (DA).

His exceptional accomplishment reflects his strong technical knowledge, academic excellence, and dedication towards achieving success in one of India's most prestigious competitive examinations.

Student Achievements



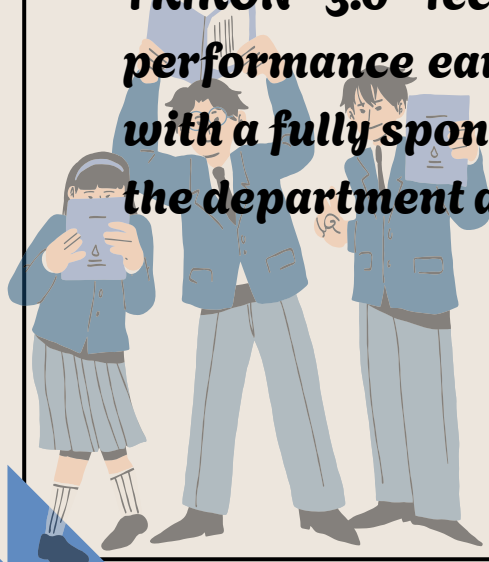
Saianshi Saxena and Rupal Agarwal, second-year students of the B.Tech CSE–Data Science department at MIET, showcased exceptional innovation and technical expertise by participating in technical hackathons. Their outstanding problem-solving skills earned them the 1st position in the MANOGATHA Ideathon, along with a cash prize of ₹5,000, bringing recognition to the department and the institute.



Student Achievements



Prafullit Bhattacharya, Mohini Teotia, and Vedansh, third-year students of the B.Tech CSE–Data Science department at MIET, showcased exceptional innovation and teamwork by securing the 3rd position in the TRIKON 3.0 Technical Hackathon. Their outstanding performance earned them a cash prize of ₹5,000 along with a fully sponsored trip to Manali, bringing laurels to the department and the institute.



Student Achievements



Saianshi Saxena, Rupal Agarwal, Pritika Singh, and Shubhangi Singh, second-year students of the B.Tech CSE–Data Science department at MIET, showcased exceptional innovation and teamwork at TRIKON 3.0 – The Tech Triathlon. Competing as Team BlockSphere, they were recognized among the Top 35 teams and the Top 3 All-Girls Teams out of more than 350 participating teams, bringing pride to the department and the institute.



Students Academic Development

- **Nandani Sharma**, a third-year student of the B.Tech CSE–Data Science department at MIET, secured the 1st position in academics during her second year. In recognition of her outstanding academic excellence, she was awarded a cash prize of ₹10,000.
- **Bhoomi Sharma**, a third-year student of the B.Tech CSE–Data Science department at MIET, secured the 2nd position in academics during her second year. Her consistent academic performance earned her a cash prize of ₹5,000 in recognition of her achievement.
- **Sanya Jain**, a fourth-year student of the B.Tech CSE–Data Science department at MIET, secured the 1st position in academics during her third year. In recognition of her exceptional academic performance, she was awarded a cash prize of ₹10,000.
- **Priyanshi Sharma**, a fourth-year student of the B.Tech CSE–Data Science department at MIET, secured the 2nd position in academics during her third year. Her remarkable academic achievement was recognized with a cash prize of ₹5,000.
- **Raghav Sharma**, a third-year student of the B.Tech CSE–Data Science department at MIET, showcased exceptional talent and creativity by securing the 3rd position in a cultural competition. His outstanding performance reflects his active participation and excellence in extracurricular activities, bringing pride to the department and the institute.

Faculty Achievements

Dr. Krishan Kumar Sharma (Head of the Department)

- **Dr. Krishan Kumar Sharma, Head of the Department, obtained IEEE Faculty Membership and guided three students, Akshat Gupta, Tapasya Ruhela, and Saianshi Saxena, in becoming IEEE Student Members. Under his leadership, the department is also organizing an IEEE Conference scheduled for 4-5 December 2026, promoting research, innovation, and academic collaboration.**

Ms. Shivani Pandey (Research & Publications)

- **Ms. Shivani Pandey qualified the UGC NET for Assistant Professor in Computer Science and Applications, demonstrating her academic excellence and commitment to higher education.**
- **She served as a reviewer for three IEEE conferences and received a research grant under the MIET Research Policy, recognizing her valuable contributions to research and academic advancement.**

Dr. Pankaj Kumar Gupta

- **Dr. Pankaj Kumar Gupta coordinated with DRDO, New Delhi, and secured a sponsorship grant of ₹70,000 for the IEEE Conference, reflecting his commitment to strengthening research collaborations and academic initiatives.**

Mr. Hemant Kumar Baranwal

- **Mr. Hemant Kumar Baranwal successfully earned the AWS Certified Cloud Practitioner (CLF-C02) Global Certification, enhancing his expertise in cloud computing and emerging technologies.**

Mr. Amod Kumar

- **Mr. Amod Kumar successfully completed the UiPath Automation Developer Associate Training Certification, strengthening his expertise in robotic process automation and intelligent automation technologies.**

Mr. Aqib Akhtar Zia & Mr. Rajeev Kumar

- **Mr. Aqib Akhtar Zia and Mr. Rajeev Kumar successfully qualified the DSA Training Assessment, demonstrating their technical competence and commitment to continuous professional development.**

Research Paper Publications Details

Hybrid Deepfake Detection Framework: Integrating Customized CNN, Ensemble Learning, and Meta-Learning for Enhanced Robustness

- **Authors:** Shivani Pandey
- **Type:** Conference Paper
- **Date of Publication:** 13 May 2025
- **Indexing:** SCOPUS

Graph Based Automatic Text Summarization for Categorization of BBC News Articles

- **Author:** Shivani Pandey
- **Type:** Conference Paper
- **Date of Publication:** 26 March 2025
- **Indexing:** SCOPUS

An Optimal Approach for Government Tender Code Extraction through Extreme Multi-Label Text Classification

- **Authors:** Pallavi Sharma, Shivani Pandey
- **Type:** Conference Paper
- **Date of Publication:** – (not provided)
- **Indexing:** SCOPUS

Analysis of CNN Models for Eye Disease Classification Using Retinal Images

- **Author:** Rohit Aggarwal
- **Type:** Conference Paper
- **Date of Publication:** 29 October 2024
- **Indexing:** SCOPUS

Comparative Performance Analysis of Machine Learning Algorithms in Crop Recommendation System

- **Authors:** Amod Kumar, Rohit Aggarwal, Hemant Kumar Baranwal, Aqib Akhtar Zia
- **Type:** Conference Paper
- **Date of Publication:** 21 March 2025
- **Indexing:** SCOPUS

Research Paper Publications Details

Image Classification Using Convolutional Neural Networks (CNNs)

- **Authors:** Shivani Pandey
- **Type:** Conference Paper
- **Date of Publication:** 13 May 2025
- **Indexing:** SCOPUS

A review on federated learning approach for privacy-preserving mental health monitoring

- **Authors:** Shivani Pandey
- **Type:** Conference Paper
- **Date of Publication:** 13 May 2025
- **Indexing:** SCOPUS

Krishi Sarthi: An Integrated Full-Stack Decision Support System for Modern Indian Agriculture

- **Author:** Shivani Pandey
- **Type:** Conference Paper
- **Date of Publication:** 26 March 2025
- **Indexing:** SCOPUS

Helmet Detection and License Plate Recognition

- **Authors:** Pallavi Sharma, Shivani Pandey
- **Type:** Conference Paper
- **Date of Publication:** – (not provided)
- **Indexing:** SCOPUS

Blockchain-Enabled Land Registration System: A Comprehensive Review and Implementation Framework

- **Author:** Rohit Aggarwal
- **Type:** Conference Paper
- **Date of Publication:** 29 October 2024
- **Indexing:** SCOPUS

Facial Emotion Recognition with Comforting and counselling Responses

- **Authors:** Amod Kumar, Rohit Aggarwal, Hemant Kumar Baranwal, Aqib Akhtar Zia
- **Type:** Conference Paper
- **Date of Publication:** 21 March 2025
- **Indexing:** SCOPUS

Oracles-Blockchain for Quotation Selection and Secure Healthcare Equipment Supply chain

- **Author:** Shivani Pandey
- **Type:** Conference Paper
- **Date of Publication:** 26 March 2025
- **Indexing:** SCOPUS

Student Research Paper Details

Healthcare & Medical Domain

1. **A review on federated learning approach for privacy-preserving mental health monitoring**
 - **Students:** Ms. Suhani Gupta, Ms. Sneha Kansal, Ms. Vanshika Bansal, Ms. Shruti Tiwari
 - **Supervisor:** Mr. Aqib Akhtar Zia, Ms. Shivani Pandey
2. **Oracles-Blockchain for Quotation Selection and Secure Healthcare Equipment supply chain**
 - **Students:** Sakshi Sharma, Yash Sharma, Romita Khurana, Vinay Rishiwal and Latika Pinjarkar
 - **Supervisor:** Mr. Shivani Pandey
3. **Brain Tumor Detection**
 - **Students:** Arpit Tyagi, Anjali Tomar, Arin Lamba
 - **Supervisor:** Mr. Rohit Aggarwal
4. **Survey on Retinopathy Classification Diabetic Detection Using Efficient-Net and Grad-CAM**
 - **Students:** Esha Chauhan, Harshi Rani, Vaibhav Chauhan, Vanshika Yadav
 - **Supervisor:** Mr. Aqib Akhtar Zia
5. **Ensemble Learning for Blood Group Detection Using Fingerprints**
 - **Students:** Srishti Rohila, Sneha Jain, Priyanshi Sharma, Uffiyan Nizam
 - **Supervisor:** Mr. Praveen Kumar Mishra

Artificial Intelligence & Machine Learning

1. **Image Classification Using Convolutional Neural Networks (CNNs)**
 - **Students:** Ms. Suhani Gupta, Ms. Sneha Kansal, Ms. Vanshika Bansal, Ms. Shruti Tiwari
 - **Supervisor:** Mr. Amod Kumar
2. **Helmet Detection and License Plate Recognition**
 - **Students:** Mr. Suryansh, Ms Shruti, Ms Tanishka Kumari, Mr. Sanjya Jain
 - **Supervisor:** Mr. Amod Kumar
3. **License Plate Recognition System using Easy OCR**
 - **Students:** Sanya Jain, Shruti, Suryansh, Tanishka Kumari
 - **Supervisor:** Mr. Amod Kumar

Student Research Paper Details

4. Wine quality prediction using Machine Learning

- Students: Akshara Saraswat, Ashu Kumar, Yash Yadav, Devraj Chauhan
- Supervisor: Mr. Amod Kumar

5. Stock Market Prediction Using LSTM Networks

- Students: Arpash Singh, Dhruv Rathi, Hardik Kapil
- Supervisor: Mr. Hemant Kumar Barnwal

6. Facial Emotion Recognition with Comforting and counselling Responses

- Students: Ms. Muskan Singhal, Ms. Nandini, Ms. Deeksha Gupta
- Supervisor: Mr. Praveen Kumar Mishra

7. An intelligent E-commerce recommendation system using sentiment analysis

- Students: Akash, Akash Garg, Harshit Garg
- Supervisor: Mr. Praveen Kumar Mishra

8. A review on Unified machine learning approaches for Spam, Phishing, QR code and UPI Fraud Prevention

- Students: Deepanshu Bhargav, Mohd. Zaid, Shreya Jain, Krishna Sharma
- Supervisor: Mr. Aqib Akhtar Zia

9. ECHOVIBE: Smart Mood-Based Music Recommendation and Song Recognition System

- Students: Kanishka Gupta, Sarthak Sharma, Harshit Mittal, Harsh Galue
- Supervisor: Mr. Praveen Kumar Mishra

10. Gesture To Speech Conversion System

- Students: Aditi Kushik, Kritika, Sanyam Sharma
- Supervisor: Mr. Hemant Kumar Barnwal

11. AI Agent-Based Merchandising System for Discord Using Fetch.AI

- Students: Aayush Bhati, Aayush Singhal, Abhishek Jangid, Ayush Singh
- Supervisor: Dr. Anirban Bhattacharya

12. Sales Forecasting & Revenue Prediction using Machine Learning

- Students: Chetanya Chaudhary, Aryan Aggarwal, Aditya Kumar
- Supervisor: Dr. Lalit Kumar

13. Cricketers Recognition and Deepfake Detection Using CNN

- Students: Shalu Tiwari, Sneha Kansal, Suhani Gupta, Vanshika Bansal
- Supervisor: Mr. Amod Kumar

Student Research Paper Details

14. Payment Fraud Detection Using Machine Learning

- Students: Prajjwal Pundir, Priyanshu Saini, Lakshay Tyagi, Mayank Sharma
- Supervisor: Dr. Anirban Bhattacharya

15. AI Powered Placement Tracker

- Students: Pankaj, Ramneet Singh, Prateek Vats, Ishant Sharma
- Supervisor: Ms. Shivani Pandey

16. AI-Powered Resume Builder

- Students: Sumit Shishodia, Harsh Kumar, Manasvi Dev, Tushar Sharma
- Supervisor: Mr. Rajeev Kumar

Data Science & Analysis

1. Real Estate Ultimate Price Prediction and Recommendation System

- Students: Nilansh Garg, Yashashvi Pundir, Tushar Pundir, Rishabh
- Supervisor: Ms. Shivani Pandey

2. OLA Data Analysis and Ride Comparison

- Students: Harsh Kumar, Kunal Solanki, Avinash Kr Singh, Rudra Pratap
- Supervisor: Dr. Lalit Kumar

3. Super-Store Data Analysis Using AWS

- Students: Prateek Chaudhary, Vansh Sharma, Sagar, Utkarsh Verma
- Supervisor: Ms. Shivani Pandey

Blockchain

1. Blockchain-Enabled Land Registration System

- Students: Ayush Bisht, Nishtha Teotia, Ayush Sharma, Taniya Agarwal
- Supervisor: Ms. Shivani Pandey

Agriculture

1. Krishi Sarthi: An Integrated Full-Stack Decision Support System

- Students: Aviraj Singh, Yugank Dabas, Kriti Gaur, Anshika Panwar
- Supervisor: Mr. Aqib Akhtar Zia

Student Research Paper Details

2. Pest Detection and Pesticide Recommendation System Using Deep Learning

- **Students:** Manisha Sharma, Anchal
- **Supervisor:** Mr. Hemant Kr Barnwal

3. Asian Crop Yield Prediction System

- **Students:** Adarsh Pandey, Sidh Jain, Ayush Kr Maurya
- **Supervisor:** Mr. Rohit Aggarwal

4. Crop Yield Prediction Using ML Technology

- **Students:** Aditya Sharma, Shivam Kumar, Satvik Vats
- **Supervisor:** Mr. Amod Kumar

5. Crop Disease Detection Using Efficient Net

- **Students:** Gautam Tyagi, Anshul Tyagi
- **Supervisor:** Mr. Rohit Aggarwal

Smart Cities, IOT, Biometrics & Ed-Tech

1. Smart Waste Management System: Trash Master

- **Students:** Vishesh Jindal, Shivansh Mishra, Prakhar Jain
- **Supervisor:** Mr. Amod Kumar

2. Face Recognition Voting System

- **Students:** Akash Shishodia, Aman, Kajal
- **Supervisor:** Mr. Rajeev Kumar

3. Face Recognition Based Attendance Management System

- **Students:** Arjun, Aryan, Mayank Tomar, Himanshu
- **Supervisor:** Mr. Rajeev Kumar

4. Online Exam Platform System

- **Students:** Akash Taliyan, Devanshu Kant, Anshuman Verma, Anshul Kumar
- **Supervisor:** Mr. Rohit Aggarwal

Student Patent Details

1. Real-Time Deepfake Detection and Mitigation Using Multimodal Lightweight AI Framework

- **Applicants' Name:** Vijay Kumar Sharma, Prof. (Dr.) Swati Sharma, Prof. (Dr.) Pradeep Pant, Dr. Ravi Prakash, Mr. Rohit Aggarwal, Mr. Punit Mittal

2. AI-Based Autonomous Scientific Experimentation System Using Reinforcement and Bayesian Optimization

- **Applicants' Name:** Vijay Kumar Sharma, Prof. (Dr.) Swati Sharma, Prof. (Dr.) Pradeep Pant, Mr. Rohit Aggarwal, Mr. Punit Mittal, Ms. Beena Sachan

3. AI-Based Adaptive Tutor Using Emotional and Cognitive Feedback

- **Applicants' Name:** Vijay Kumar Sharma, Prof. (Dr.) Swati Sharma, Prof. (Dr.) Pradeep Pant, Dr. Mukesh Rawat, Mr. Rohit Aggarwal, Mr. Punit Mittal, Mr. Rocky Sachan

4. Ethical AI Frameworks: Promoting Fairness, Transparency, and Accountability in AI Systems

- **Applicants' Name:** Vani Rastogi, Pradeep Pant, Vijay Kumar Sharma, Sapna Singh, Mr. Rohit Aggarwal

5. Kristhi Saarthi

- **Applicants' Name:** Yugank Dabas, Kriti Gaur, Avraj Singh, Anshika Panwar, Aqib Akhtar Zia

6. FedMind

- **Applicants' Name:** Rakshita Chande, Ananta Verma, Pari, Nikshy Goliyan, Aqib Akhtar Zia

7. A Unified System for spam, phishing and financial fraud prevention

- **Applicants' Name:** Deepanshu Bhargav, Mohd. Zaid, Shreya Jainc, Krishna Sharm, Aqib Akhtar Zia

8. XAI based health monitoring system

- **Applicants' Name:** Mohd Kaif, Nishant Kumar, Rinisha Singh, Varnik Garg, Shivani Pandey

AKTU University

Sports Fest Participation



Amitabh Jain, a third-year student of the B.Tech CSE–Data Science department at MIET, secured the 1st position in the AKTU Sports Fest 2024-25 (Zonal Level) in Chess, showcasing exceptional strategic skill and sportsmanship.

Aaradhya Sharma, a second-year student of the B.Tech CSE–Data Science department at MIET, secured the 1st position in the Badminton event at the AKTU Sports Fest 2025–26 (Zonal Level), showcasing exceptional skill and sportsmanship.



Aaradhya Sharma, a second-year student of the B.Tech CSE–Data Science department at MIET, represented the institute as a member of the MIET Kho-Kho team. Her commendable performance contributed to securing the 1st position in the AKTU Sports Fest 2025-26 (Zonal Level).



Faculty's Article



Get Yourself ready for Data Science

The world is moving fast. We have progressed from manual work to petrol- and diesel-powered engines, then to electric machines, and now to smart machines. Yet, one thing remains common across all these transformations: **fuel**.

Manual work requires human energy, supported by proper nutrition. Machines that reduced our physical workload initially relied on petrol or diesel, while later generations became dependent on electricity. Today, modern and smart machines increasingly rely on **data as their fuel**.

In the recent past, we have witnessed how a scarcity of fuel caused by wars and geopolitical conflicts can disrupt everyday life, simply because machines have become an integral part of it.

Similarly, smart machines are becoming essential to our daily lives. To ensure that this new way of life remains resilient against scarcity or misuse of its fuel (data) we need to strengthen the framework through which data is collected, managed, analysed, and utilized.

Therefore, it is high time that everyone becomes acquainted with Data Science, understands its significance, and contributes to building a data-driven world that is smarter, safer, and more sustainable.

Smarter: Turning Data into Intelligence

Data science helps us move from “**What happened?**” (data and facts) to “**Why did it happen?**” (analysis) and “**What is likely to happen next?**” (prediction and utilization). For example, data science can help analyse traffic patterns, public transportation, energy consumption, and infrastructure data to make urban life smarter, more efficient, and more convenient.

Safer: Predicting and Preventing Risks

Data science helps transform safety from a **reactive approach to a predictive approach**. Instead of responding to a problem after it occurs, we can use data to identify potential risks and take preventive action.

For example, data science can help detect fraudulent or unusual transactions and suspicious activities in real time, allowing appropriate action to be taken before the damage occurs on a large scale.

More Sustainable: Doing More with Fewer Resources

Data science can help us optimize how we consume and manage our limited resources. By making better use of available data, we can reduce waste while improving efficiency.

For example, data science can combine soil, weather, and crop data to optimize irrigation, fertilizer, and pesticide usage. This not only conserves valuable resources but can also help protect soil quality, as excessive use of fertilizers and pesticides can degrade soil health overtime.

“Data is becoming the fuel of the modern world, and data science is the engine that converts this fuel into intelligence—helping us build systems that are smarter, safer, and more sustainable.”

Ankit Rajvanshi

Assistant Professor

Department of CSE-Data Science



Student's Article

Data Science in the Age of Generative AI: Opportunities, Challenges and the Future

Introduction

Data Science has emerged as one of the most influential fields of the digital era. By combining statistics, programming, artificial intelligence and domain knowledge, it enables organizations to transform large volumes of data into meaningful insights and informed decisions.

From personalized recommendations on streaming platforms to fraud detection in banking and predictive healthcare, Data Science has become an integral part of everyday life.

Current Trends

One of the biggest trends shaping Data Science today is the rapid growth of Generative AI and Large Language Models (LLMs). These technologies are changing how data is analyzed, interpreted and communicated. Along with Generative AI, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision and automated data analytics are becoming increasingly important.

Future Aspects

The future of Data Science is closely connected with the development of more intelligent and responsible AI systems. Data Scientists are likely to work alongside AI tools rather than simply competing with them. Automated machine learning, explainable AI, multimodal AI and advanced predictive systems can make data-driven solutions more accessible across different industries.

In the coming years, Data Science will not only be about analyzing data but also about asking the right questions, understanding context and using technology responsibly. Professionals who combine programming and analytical skills with creativity, communication and ethical thinking will have a strong advantage. Data is often called the "new oil," but its real value lies not in its quantity, but in how intelligently it is used. As technology continues to evolve, Data Science has the potential to become a powerful force for innovation, helping society make smarter decisions and build a more efficient and sustainable future.

Challenges

Despite its potential, Data Science faces several challenges. The quality of results depends heavily on the quality of data. Incomplete, biased or inaccurate datasets can lead to unreliable predictions and unfair outcomes. Data privacy and security are also major concerns as organizations collect and process increasingly sensitive information.

Another challenge is the shortage of professionals who possess both strong technical skills and a clear understanding of real-world problems. Moreover, the increasing use of AI raises important questions about transparency, bias, accountability and responsible decision-making.

Unnati Saxena

B.Tech CSE- Data Science 2nd Year

Student's Article

▶▶▶▶ The Day Data Stopped Just Talking — And Started Deciding

A few years ago, if you asked a computer a question about your data, it would tell you what happened. Today, it tells you what to do next. Somewhere between those two sentences, an entire discipline quietly changed shape — and most of us are still catching up.

That shift is the story of modern data science. It didn't happen with a bang. It happened the way most revolutions do: one recommendation engine, one fraud alert, one AI-suggested diagnosis at a time — until one day we looked up and realised the algorithms weren't just observing our world anymore. They were steering it.

From Rear-View Mirror to Steering Wheel

For decades, data science looked backward. Spreadsheets, dashboards, reports — all of it answered a single question: what already happened? That was useful, but passive. The data scientist was a historian with better tools.

Three quiet forces are driving this shift:

Edge AI is pulling intelligence out of distant data centres and putting it right where decisions need to happen — inside a self-driving car, a hospital monitor, a factory sensor — because some decisions can't wait for a round trip to the cloud.

Explainable AI (XAI) is pushing back against the idea that "accurate" is enough. If an algorithm decides who gets a loan, a diagnosis, or a job interview, accuracy without explanation isn't intelligence — it's a black box wearing a lab coat.

Generative AI has blurred the line between analysing information and creating it, turning data scientists into something closer to architects of new content than analysts of old records.

The Catch: Data Doesn't Come With a Conscience

This is where the story gets uncomfortable — and it's the part textbooks tend to skip.

Data is not neutral. It never was. Poor-quality data produces confident, polished, completely wrong answers. Biased datasets don't just make mistakes — they make unfair ones, at scale, automatically, without ever announcing that they're doing it. And as systems get better at extracting meaning from our digital lives, the line between "helpful personalisation" and "quiet surveillance" gets thinner every year.

What This Means for Us

This is the part that should matter most to anyone reading this in a lecture hall right now: the next generation of data scientists won't be judged only by how well they code or how cleanly they model a dataset. They'll be judged by whether they can stand between data and society and translate responsibly — turning raw numbers into insight, without losing sight of the human being on the other end of every prediction.

Because in the end, the goal was never to hand machines all the answers. It's to get better at asking the questions worth answering — and to have the judgement to know what to do once we get a response

Yash Kumar

B.Tech CSE- Data Science 2nd Year

Student's Article



Data Science: Shaping Tomorrow with Today's Data

In today's digital world, almost every activity—whether it's shopping online, using social media, or making digital payments—creates data. While this information may seem ordinary, it holds the power to solve real-world problems. Data Science is the field that transforms this raw data into meaningful insights, helping businesses, governments, and individuals make better decisions.

One of the most exciting trends in Data Science is the rise of Artificial Intelligence (AI) and Machine Learning (ML). These technologies enable systems to learn from data, identify patterns, and make accurate predictions. Another rapidly growing trend is Generative AI, which can create text, images, and even computer code. From personalized recommendations on streaming platforms to fraud detection in banking, data science has become an essential part of our daily lives.

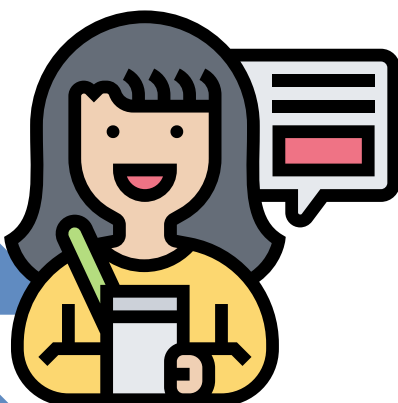
The future of Data Science is filled with opportunities. It is expected to play a major role in healthcare, education, agriculture, cybersecurity, and environmental conservation. Doctors can use data to diagnose diseases more accurately, while farmers can improve crop production using weather and soil analysis. As organizations continue to rely on data-driven decisions, the demand for skilled data professionals will continue to grow.

However, this progress also brings challenges. Protecting personal information, ensuring data privacy, and maintaining the quality of data are major concerns. Biased or inaccurate data can lead to unfair decisions, making ethics and transparency essential in every stage of data analysis.

Data Science is much more than numbers and algorithms—it is about using information to create meaningful solutions. As students of this field, we have the opportunity to combine technology with responsibility and innovation. By learning, adapting, and thinking ethically, we can contribute to a future where data is not just collected but used to make the world smarter, safer, and better for everyone.

Prachi Arora

B.Tech CSE- Data Science 2nd Year



Student's Article

Data Science: Today, Tomorrow, and the Challenges Ahead

Introduction

Every time we use our phones, browse social media, or shop online, we create data. In the past, this was just digital trash. Today, Data Science is the magic tool that turns raw data into useful decisions. It is the invisible force behind movie recommendations, live map directions, and online fraud protection.

What is Happening Today?

Data Science is already part of our daily lives:

- Smart AI Tools: Modern systems do not just show numbers—they can write text, code, and generate images in seconds.
- Instant Answers: Apps analyze information instantly as it happens, giving us live updates without waiting.
- Easy Automation: Tools now do the boring, repetitive coding automatically. This lets developers spend more time solving actual real-world problems.

What to Expect in the Future?

The future of Data Science is about making technology safer, faster, and smarter:

- Clear Decisions: Current AI systems are like "black boxes"—we see the result, but not how it got there. Future systems will clearly explain why they made a decision, especially in hospitals and banks.
- Artificial Data: Collecting real user data can be risky for privacy. Using safe, artificially created data to train smart systems will soon become the standard.
- Super Speeds: Powerful new computers will solve massive scientific problems in seconds, helping invent new medicines much faster.

The Main Challenges

Even with great technology, there are three big problems to solve:

1. Messy Data: Real data is often messy, wrong, or incomplete. Cleaning it still takes up most of a data scientist's time.
2. User Privacy: Protecting personal user information from leaks is a massive technical duty.
3. Hidden Biases: Computers learn from human choices. If old human data is unfair, the computer will quietly repeat those same unfair mistakes.

Conclusion

Data Science is not just about writing computer code—it is about helping people and solving practical everyday problems. As students, our job is to build tools that are not only powerful, but also fair, safe, and honest for everyone.

Sameera Navadid

B.Tech CSE- Data Science 2nd Year

Student's Article

Beyond the Numbers: The Power and Responsibility of Data Science

Where Data Meets Intelligence

In today's digital world, data has become one of the most valuable resources. Every search, online purchase, digital payment, and social media interaction generates data. Data Science transforms this information into meaningful insights using statistics, programming, and analytical techniques. It helps organizations make informed decisions, solve complex problems, and drive innovation across various fields.

Transforming Industries, Creating Possibilities

Data Science is transforming industries such as healthcare, banking, education, and e-commerce. It helps predict diseases, detect fraud, personalize learning, and recommend products. With the growth of Artificial Intelligence (AI), Machine Learning (ML), and Big Data, its applications are expanding rapidly, creating exciting opportunities for innovation and career growth.

When Data Comes with Responsibility

Along with its benefits, Data Science brings challenges related to data privacy, security, and ethical use. Biased or incomplete datasets can lead to unfair decisions, while data breaches can compromise sensitive information. Therefore, data scientists must focus on building systems that are transparent, secure, fair, and responsible.

Building the Data-Driven Future

The future of Data Science is promising, with technologies such as Explainable AI, Internet of Things (IoT), and Edge Computing creating new possibilities. As organizations increasingly adopt data-driven solutions, the demand for skilled professionals will continue to grow. Future data scientists will play an important role in developing reliable and responsible technologies.

Shaping Tomorrow with Data

Data Science is more than a technological trend; it is a powerful force driving innovation and progress. While it offers countless opportunities, its responsible use is equally important. By combining technical expertise with ethics and accountability, future data scientists can create intelligent solutions that make a meaningful and positive impact on society.

"The real power of Data Science lies not in the data we possess, but in the impact we create with it."



Saianshi Saxena
B.Tech CSE- Data Science 3rd Year



Student's Article



Decoding Data Science: The Fuel of Tomorrow

Introduction

Data Science is the process of turning raw data into useful information and insights. In today's digital world, every search, transaction, click, and online activity generates data. Data Science helps us understand this information and use it to make better decisions, making it one of the most important fields in modern technology.

Current Trends in Data Science

Data Science is developing rapidly with the growth of new technologies. Artificial Intelligence and Machine Learning are being used to automate tasks, predict trends, and solve complex problems. Generative AI can create text, images, and code, making technology more accessible. Real-time data processing helps applications provide instant results, such as live traffic updates and fraud detection, while Big Data Analytics helps organizations find useful patterns in massive amounts of information.

Future Aspects of Data Science

In the future, Data Science will bring major changes across multiple industries. In healthcare, it can help doctors predict health risks before symptoms appear. In education, data can personalize learning experiences based on individual student needs. Smart cities will rely on data to optimize traffic, energy use, and public services, while businesses can use it to create better customer experiences.

Challenges in Data Science

Along with opportunities, Data Science faces critical challenges such as data privacy, cybersecurity, poor-quality data, and algorithmic bias. There is also an urgent need for skilled professionals who understand both technical execution and ethical responsibility.

Conclusion

Data Science is not just a passing technology trend; it is shaping our digital future. As student technologists, our goal should focus not only on using data effectively, but also on using it responsibly and ethically for the benefit of society.

Nitesh Kumar

B.Tech CSE-Data Science 3rd Year



Student's Article

Challenges in Data Science: A Student's Perspective

Data Science is one of the fastest-growing fields in today's world. It is used in healthcare, banking, education, business, social media, and Artificial Intelligence. As a Data Science student, I feel that this field has many opportunities, but it also brings several challenges that students need to understand.

The Pace of Changing Technology

One of the biggest challenges is that technology changes very quickly. New AI tools, Machine Learning models, libraries, and platforms are introduced regularly. Sometimes it becomes difficult for students to decide what to learn first and what is actually important for their career. We cannot depend only on classroom learning; we also need to explore new tools, practice regularly, and keep ourselves updated.

Working with Real-World Data

Another challenge is working with real-world data. In college assignments, datasets are usually clean and easy to understand. But in real projects, data can have missing values, duplicate entries, wrong information, or different formats. A lot of time is spent cleaning and preparing data before analysis. I think students understand this properly only after working on practical projects.

Theory versus Practical Application

There is also a big difference between learning concepts and applying them practically. We may understand regression, classification, clustering, or other Machine Learning concepts in theory, but using them to solve an actual problem is different. This is why projects, internships, and hands-on practice is very important for Data Science students.

The Breadth of Required Skills

Another issue is that Data Science requires knowledge of many skills such as Python, SQL, statistics, Machine Learning, databases, visualization, and sometimes cloud technologies. Trying to learn everything together can become confusing. In my opinion, students should focus on strong basics first and then move step by step towards advanced topics.

Data Privacy and Ethics

Data privacy and ethics are also important challenges. Data Scientists often work with user and business data, so it must be handled responsibly. Biased data can also lead to biased results. Students should understand that Data Science is not only about creating accurate models, but also about using data in a fair and responsible way.

Conclusion

In the end, Data Science is not only about coding or Machine Learning algorithms. It is about understanding problems, working with data, finding useful information, and making better decisions. If we learn step by step, stay curious, and keep practicing, these challenges can become part of our learning journey and help us grow as future Data Science professionals.

Bharat Sheyoran
B.Tech CSE-Data Science 3rd Year

Student's Article

Data Science : The Intelligence Behind Modern Innovation

In a world where every interaction generates data, Data Science and AI have become key forces shaping how we turn information into knowledge and decisions. They show how machines are beginning to learn from the world, blurring the line between human and machine intelligence. Data Science extracts meaning from raw data using statistics and programming, while AI enables machines to learn, reason, and make decisions. Together, they raise an important question:

If data is the memory of the digital world, can AI become its intelligence?

THE CURRENT WAVE

01 | FROM DATA ANALYST TO AI-ASSISTED DATA SCIENTIST

The code is changing. The questions are becoming more important. AI can now assist with SQL queries, data exploration, coding, visualization, documentation and model development. This doesn't make Data Science irrelevant—it changes where human expertise matters. The emerging data scientist needs to spend less time on repetitive implementation and more time on problem formulation. The important skill is no longer simply: "Can you build a model?" But: "Can you determine whether the model's answer deserves to be trusted?"

02 | THE RISE OF SYNTHETIC DATA

What if the data used to train tomorrow's AI never actually existed?

Synthetic data is artificially generated data that mimics the patterns and characteristics of real-world information. It is increasingly being used when real data is scarce, expensive, sensitive, or difficult to collect from creating rare accident scenarios for autonomous vehicles to protecting privacy in healthcare datasets. The fascinating part is that AI can now generate data to help train other AI systems, creating a cycle of data: Data → AI → synthetic data → better AI.

DATA SCIENCE GROWTH AHEAD

Data Science is evolving from analysing the past to predicting and shaping the future. With AI, IoT, automation, and real-time data generating massive amounts of information, Data Scientists will increasingly become decision-makers and problem-solvers, not just coders. By 2034, employment of Data Scientists is projected to reach 328,300, a 33.5% increase from 2024. The future will demand professionals who can combine data + AI + human judgment to solve complex real-world problems.

KEY CHALLENGES IN DATA SCIENCE

Data Science faces challenges such as poor-quality data, data silos, and a shortage of skilled professionals. Incomplete or inconsistent data can affect results, while scattered data makes analysis difficult. At the same time, the growing field requires professionals with strong technical, analytical, and business skills, making continuous learning and upskilling increasingly important.

Rupal Agarwal

B.Tech CSE-Data Science 3rd Year

Student's Article

Data Science: Shaping a Smarter and More Responsible Future

We generate enormous amounts of data every day. Every online purchase, social media post, GPS route, and digital payment creates information that can be analysed. Data science is the field that turns this raw data into meaningful insights, helping businesses, governments, and researchers make better decisions. Today, with the rapid advancement of Artificial Intelligence (AI), its impact is growing faster than ever.

One of the most significant trends is the rise of Generative AI and Large Language Models. These technologies can analyse information, generate content, and even assist in solving complex problems within seconds. Companies are also adopting predictive analytics to forecast customer demand, detect financial fraud, and improve healthcare services. For example, hospitals now use data-driven systems to identify diseases at earlier stages, while online platforms recommend products and movies based on user preferences.

In my opinion, the future of data science is not just about building smarter algorithms. It is about using technology responsibly to improve people's lives. Smart cities can reduce traffic congestion by analysing real-time data. Farmers can use weather and soil information to make better decisions about crops. In education, data analytics can help teachers understand students' learning patterns and provide personalized support. These are practical applications that show how data science is becoming part of everyday life.

Despite its advantages, the field also faces important challenges. Protecting personal data is becoming more difficult as organizations collect vast amounts of information. AI models can produce biased results if they are trained on incomplete or unbalanced datasets. Another challenge is the shortage of professionals who combine technical knowledge with ethical decision-making and strong problem-solving skills.

As a Computer Science student, I believe learning data science is no longer optional for those interested in technology. It encourages analytical thinking, creativity, and responsible innovation. While AI will continue to evolve, human judgment, ethics, and curiosity will remain essential. If these strengths are combined with modern data science techniques, the future will not only be more intelligent but also more beneficial for society.

Devansh Kapil
B.Tech CSE-Data Science 3rd Year

Student's Article

Data Science: The Intelligence Behind the Digital World

From Data to Decisions

In today's digital world, data is being generated at an unprecedented rate. Every search, transaction, interaction, and connected device contributes to this growing digital footprint. However, the true value of data lies not in its volume, but in our ability to understand it. Data Science bridges this gap by transforming raw data into meaningful insights, intelligent predictions, and informed decisions.

The Changing Landscape

Data Science is undergoing a remarkable transformation with the rapid advancement of Artificial Intelligence, Machine Learning, Generative AI, Big Data Analytics, Natural Language Processing, and Computer Vision. Generative AI has introduced new possibilities in content creation, programming, research, and communication, while predictive analytics enables organizations to anticipate trends and make proactive decisions.

The rise of real-time analytics, Edge AI, and automated machine learning is further making data-driven systems faster, smarter, and more efficient. These technologies are increasingly becoming part of everyday applications, from personalized recommendations to intelligent healthcare and financial systems.

A Future Driven by Intelligence

The future of Data Science lies in its integration with emerging technologies such as Artificial Intelligence, Internet of Things, Cloud Computing, and Robotics. This convergence has the potential to transform the way we live and work.

Healthcare systems may predict diseases at an early stage, smart agriculture can optimize the use of water and fertilizers, businesses can understand customer needs more accurately, and intelligent transportation systems can make cities safer and more efficient.

As organizations continue to become data-driven, opportunities for professionals in Data Science, AI, Machine Learning, and Analytics are expected to expand significantly.

Challenges: The Other Side of Innovation

Technological progress also brings significant responsibilities. Data privacy, cybersecurity, algorithmic bias, data quality, transparency, and ethical AI remain major challenges. An intelligent model can only be as reliable as the data and principles behind it.

Therefore, future Data Scientists must go beyond technical expertise. They must understand the importance of ethics, accountability, privacy, and responsible innovation.

Anushi Sharma

B.Tech CSE-Data Science 3rd Year

Student's Article



Data Science in the Era of Big Data: current trends, future prospects, & challenge

A WORLD OVERFLOWING WITH DATA

Take a moment and think about your day. From checking your phone in the morning to watching videos, ordering food, making online payments, or sharing a post on social media—every action generates data. Multiply these activities by billions of people, and the result is an enormous ocean of information known as Big Data. But data, by itself, is just a collection of numbers and facts. Data Science is the discipline that transforms this raw information into meaningful knowledge, helping businesses, governments, and researchers make informed decisions.

THE RISE OF INTELLIGENT DECISION MAKING

Data Science has moved beyond spreadsheets and reports. Today, organizations use Predictive Analytics to forecast future trends, Real-Time Analytics to respond instantly to changing situations, and to build intelligent models more efficiently. Advanced visualization tools further simplify complex datasets, make it easier for decision-makers to understand information quickly and accurately. These innovations are redefining how industries solve problems.

BUILDING TOMORROW WITH DATA

The future of Data Science is full of possibilities.

In healthcare, it can support early diagnosis and personalized treatments. Agriculture is becoming smarter, while smart cities are improving transportation, energy management, and public safety. In education, learning analytics is creating personalized learning experiences, and businesses are relying on data to innovate, compete, and grow in a rapidly changing digital world.

INNOVATION AND RESPONSIBILITIES

As the volume of data continues to increase, so do the challenges. Protecting personal privacy, ensuring high-quality datasets, reducing algorithmic bias, and maintaining ethical standards have become essential. The true power of Data Science lies not only in extracting insights but also in using data responsibly, transparently, and for the benefit of society.

BEYOND DATA TOWARD DISCOVERY

Data is often called the “new oil”, but its real value is when it is analysed. Data science bridge the gap between information and innovation. In the world or era of BIG DATA, success will belong to those who can rise questions, discover patterns, and munch information as impactful decisions.

Arpit Sharma

B.Tech CSE-Data Science 3rd Year



Student's Article



Data Science: The Compass Of Digital Age

INTRODUCTION

In 2026, data science has evolved from a technical niche into the compass guiding the digital age. It powers

CURRENT TRENDS

AI-Powered Automation: Generative AI now takes over tedious tasks like preprocessing and visualization, allowing data scientists to focus on strategy, ethics, and storytelling.

Foundation Models Take Center Stage: Large-scale models fine-tuned for industries are revolutionizing fraud detection, diagnostics, and personalized recommendations.

Data Provenance and Trust Layers: Transparency in data origins and compliance has become a competitive advantage in an era of misinformation.

Storytelling with Data: Numbers alone are not enough; the ability to craft compelling narratives is now as critical as technical expertise.

Agent-Ready Data: With autonomous AI agents rising, datasets must be interoperable and accessible for seamless decision-making.

FUTURE ASPECTS

Human-AI Collaboration: By 2027, AI proficiency will be a baseline skill. Data scientists will act as strategists, guiding intelligent systems rather than competing with them.

Autonomous Pipelines: Workflows described in plain English—"Clean this dataset, check anomalies, prepare a dashboard"—will be executed flawlessly by AI, democratizing data science.

Quantum-Safe Analytics: As quantum computing threatens encryption, quantum-resistant cryptography will secure sensitive datasets.

Unified Data + AI Stacks: Integrated platforms combining management, analytics, and AI will replace fragmented systems, reducing inefficiencies.

CHALLENGES

Trust and Authenticity: Ensuring provenance at scale is difficult but vital to avoid bias and misinformation.

Regulatory Whirlwinds: Constantly evolving global laws create compliance headaches for organizations.

Security Risks: Expanding data volumes increase exposure to breaches and adversarial attacks.

Market Shakeups: Generative AI is disrupting workflows, forcing rapid adaptation or risking obsolescence.

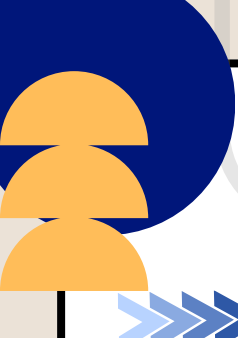
CONCLUSIONS

Data science today is a thrilling ride—equal parts opportunity and challenge. It is no longer just about models, but about vision, ethics, and adaptability. The sunset of static approaches has passed, and the dawn of dynamic, collaborative data science is rising.

Tapasya Ruhela

B.Tech CSE-Data Science 3rd Year





Student's Article



Will AI Replace Data Scientists?

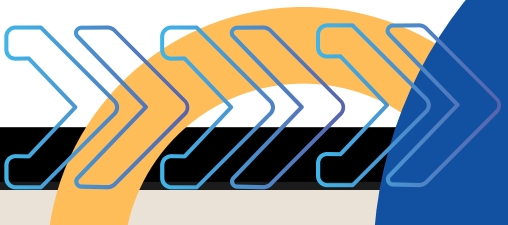
Artificial Intelligence is rewriting the rules of data science. Automated machine learning and generative AI can now clean datasets, write code, and even build predictive models — tasks once reserved exclusively for human experts. Naturally, this sparks an unsettling question: are data scientists becoming obsolete?

The truth is more nuanced. While AI excels at pattern recognition and computation, it lacks contextual judgment, ethical discernment, and strategic intuition — qualities intrinsic to human cognition. Rather than rendering data scientists redundant, AI is redefining their role, transforming them from mere executors into orchestrators of intelligent systems. The future isn't replacement — it's a powerful synergy between human insight and machine intelligence.

"AI is not replacing data scientists — it is redefining what it means to be one."

Kashish

B.Tech CSE (Data Science), 4th Year.



Student's Article

Sustainable Cities and Communities



Getting help from government :-



For: (i) Social awareness
(ii) Use government owned vehicles and people for garbage collection.

Garbage

A.I. MACHINE

For distribution of
(i) Dry and Wet garbage
(ii) Biodegradable and non-biodegradable waste

HYDRAULIC PRESS



→ Use to crush and making the waste in single piece

Intermediate Process



ELECTRIC COIL HEATERS

• For heating that one piece and giving it a desired shape.

*More Beneficial
bcs it is non-polluting machine*



Glass Frames

- Light Weight
- Flexible
- Durable



Chairs & Tables

- Cheap
- Durable
- Light Weight



Used in road construction work

BY-HARDIK
BRANCH - CSE(DS)

Hardik

B.Tech CSE (Data Science)



Department of CSE- Data Science

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