# BIT N BYTES: CSE INSIGHTS





Vol.2



## **About Us**

Established in 2011, DPG Institute of Technology & Management (DPGITM), Gurugram is a renowned educational institution spread over 23 acres. DPGITM is approved by AICTE, Govt. of India; Director of Technical Education, Govt. of Haryana and Affiliated to MD University, Rohtak. Our sprawling campus is nestled amidst lush green surroundings, providing a serene and conducive atmosphere for learning.

# **Our Programmes**

#### BACHELOR OF TECHNOLOGY (B.TECH)

- Computer Science & Engineering (CSE)
- Artificial Intelligence & Machine Learning (AI&ML)
- Data Science (DS)

#### MASTER OF TECHNOLOGY (M.TECH)

• Computer Science & Engineering (CSE)

### **DPG INSTITUTE OF TECHNOLOGY & MANAGEMENT**

### **GURUGRAM**

(Approved by AICTE, DTE & Affiliated to M.D. University (NAAC A+), Rohtak)
Near Hero Honda Chowk, Sector-34, Behind Marble Market Gurgaon, (Haryana) 122004
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# DPG INSTITUTE OF TECHNOLOGY & MANAGEMENT, GURUGRAM



### **GOOD PRACTICES**

"Unique approach that defines governance enabling efficient resource management to achieve excellence in ethics based academics, research and innovation to meet global educational standards."



# Governance Enabling Efficient Resource Management

Enabling Institution for holistic growth through a focussed workplace readiness and optimization approach.



# Excellence in Teaching & Learning

Setting benchmarking and adopting effective teaching and learning pedagogies to deliver the content in best possible way.



# Empowering Students With Skills

Preparing students for the required skills to take up demanding jobs / responsibilities in industries/ corporate sectors/ academic institutions.



# Providing Placement Opportunities

Organising various training programs and placement drives to get maximum placements.



### Strengthening Personalized Learning

Focusing on individual student needs and learning styles to create personalized learning environment.



# Facilitating Faculty Development & Capability Building Program

Encouraging to attend and organise FDP's and capability-building programs.



### Establishing Academic-Industry Collaboration

Bridging the gap through engaging the industry in Academic advisory board, departmental committee, joint organization of workshop, seminar, training & internships for students.



# Social Outreach & Community Connect

To up hold the moral values & individual responsibilities towards nature & society by strongly connecting with communities.



### **Mentor-Mentee System**

Sharing and caring to enhance personal and professional growth.



# Promoting Indian Knowledge Based System

Inculcating ethical values & acquainting learners with Indian tradition & culture by including it in curriculum and celebrating festivals & organizing cultural programs.



### Creating an Innovative Research Ecosystem

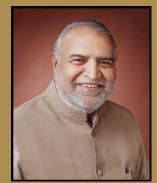
Developing an environment for sharing innovative ideas & developing scientific aptitude to inculcate habit of ideation & creativity.



### Building Strong Alumni Network

Participation of alumni in academic improvement & also playing an inspirational role in professional growth of students.

### **OUR VISIONARY LEADERS**



Sh. Gopi Chand Gahlot
Chairman, DPG ITM

#### Vision

DPG Institute of Technology and Management is committed to ensuring that students are provided quality knowledge in engineering & technology and educating them to become engineers that pursue dynamic global careers. The institution guarantees an atmosphere which contributes educational success while providing an environment that values diversity in its community.

#### Mission

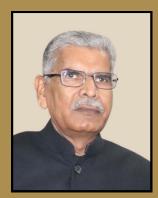
DPG Institute of Technology and Management serves to bestow the quality education to produce the broadly educated engineers, conducting quality research, developing breakthrough technologies along with disseminating and conserving technical knowledge, skill and value based holistic education.



Dr. Preeti Gahlot

Managing Director,

DPG ITM



Prof. R.C. Kuhad
Director, DPG ITM

### **EDITORIAL DESK**



Dr. Sarika Chaudhary
Associate Dean Academics
HOD CSE-AIML/DS, DPGITM

As we complete this edition of our department's magazine, we sincerely thank our honourable M.D. Ma'am, Director Sir, and everyone who helped make it possible. From the events that shaped the year to research and outreach efforts, every contribution has added value and showcased the lively spirit of our department.

This magazine is more than just words and pictures—it shows the teamwork, effort, and dedication of everyone involved. It reminds us of what we can achieve when we share ideas, support one another.

We hope this issue inspires you with fresh ideas. Thank you for your support.

Warm Regards



### **INSIDE THE ISSUE**

- Department Highlights
- Events That Defined Our Year
- Achievements That Inspire
- Research Publications
- Faculty Contributions
- Beyond Campus
- Spectrum of Celebrations

# DEPARTMENT HIGHLIGHTS

- MOU signed with National center for skill development and entrepreneurship (NCSDE), offering experiential learning through projects that are aligned with National Education policy (NEP).
- Top positions secured by students in University examinations.
- Students have been awarded certificates in online courses offered by EdX, MOOCs, NPTEL and Swayam.
- Teaching & learning is carried out in classroom and blended mode.
- Training & Placement Cell organises drives for carrier counselling, training, internship, and placements.
- Regular lectures, seminars, workshops, industrial visits leading to holistic growth.
- Visit to Indian Mobile Congress and DIDAC to inspire creativity, enhance technological awareness, and prepare students for future industry challenges.
- MOU signed with Vanillakart, offering learning through projects and trainings in the area of machine learning, AI and web development.
- Research publications by faculty as well as students in peer reviewed journals and conferences.
- The faculty regularly engages in workshops and Faculty Development Programs (FDPs) as part of their ongoing practice to stay updated with new technologies and emerging trends in education.
- Fostering Connections Beyond Academics: Celebrating Culture, Community, and Sustainability.



#### **National Science Day**

Feb 28, 2024

Celebrated National Science Day on the theme of "Indigenous Technologies for Viksit Bharat". Innovative Idea competition was organized on the sub themes like Recent technological advancements in INDIA, Environmental Degradation and Sustainable development. The real life problems like stubble burning, scope of zero investment natural farming, hazards from glass garbage, improvement scope of improvement in conventional helmet etc. were addressed by students.



Strengthen Career Development
Through Experiential Learning with
Employability.Life: A Global Training
Partner

Jan 16, 2024

Employability.life brings experience to education, delivering Agile project experiences inside the campuses and industry partners. Its unique Experiential Microcredentials (XPMC) framework combines doing and learning, preparing learners for the challenges opportunities of the contemporary workplaces.



### XPMC Student Meet -Employability.life

Mar 10,2024

project **XPMC** students (B.Tech CSE/AI&ML/DS) attended Student meet event at Radisson Blu Plaza Hotel, New Delhi of senior in the presence management of Employability.Life along with Honourable Vice chancellor Prof. Duncan Bentley, Federation University, Australia. Students received professional mentoring to identify personal strengths and develop key digital economy capabilities.







# Industry Visit - Plastic Omnium, Manesar

Mar 21, 2024

In continuation to foster collaborative initiatives for our student's growth and development, we had the incredible opportunity to delve into interdisciplinary possibilities and engage with leads at Plastic Omnium, Manesar.

During the visit, the vital Environment Health and Safety (EHS) department was explored, gaining invaluable insights into job readiness and career paths in this field. Moreover, students eagerly inquired about internship prospects, and they were truly inspired to learn internship opportunities in Mechanical, Electronics, and Data Science domains by the leads.

# Industry Academia Meet in collaboration with FEDERATION UNIVERSITY ,Australia

June 5, ,2024

The student meet for the XPMC Cyber Security Programme, in collaboration with Federation University, Australia, was a momentous event held at Constitution Club of India, New Delhi. During panel discussion esteemed panelists including Mr. Vinit Sinha, Mr. Chakrabarti, and Dr. Anant Gupta shared valuable insights on the evolving tech landscape. Students were advised to constantly update their skills by exploring new certifications, and leveraging industry collaborations, which will help gap between theoretical bridge knowledge and practical expertise.



# Inaugration of RAKSHAVEDA, Cybersecurity Club







The club was inaugurated in the presence of Chief Guest Mr. Priyanshu Deewan, ACP Cyber Gurugram, General Secretary DPGITM Mr. Surender Gahlot, MD DPGITM Dr. Preeti Gahlot, Honorable Director Prof. R.C. Kuhad, Registrar Mr. T.R. Narula, Dean Academics Prof. Mukesh Yadav, HOD CSE-AIML/DS Dr. Sarika Chaudhary, faculty coordinators and core team members of the club. The mission of club is to empower students with the knowledge and tools to protect themselves from cyber threats in their daily lives.



### Hands-on training on Python for Data Analysis

July 20, 2024

A hands-on training session on Python for Data Analysis was conducted by Ms. Renu & Ms. Meenakshi (Asst. Prof.-CSE/AIML/DS). The session focused on introducing essential Python libraries such as Pandas, NumPy, and Matplotlib. Participants engaged in interactive exercises, working through real-world datasets to gain valuable insights into data manipulation, cleaning, and plotting.





### Workshop on "Embedded tools and Data Analytics"

An insightful workshop on "Embedding AI tools and Data Analytics", highlighting Pivot Tables along with AI tools like ChatGPT for data interpretation and automation was organised. Students explored how to collect & analyze data for visualizing data trends.



# Session on Introduction to Cybersecurity: Challenges and Future Scope

Sept 25, 2024

The session on "Introduction to Cybersecurity: Challenges and Future Scope" conducted by Ms. Sonia (CSE 7th) and Mr. Raman (CSE-DS 7th) under club activity. Participants provided with a comprehensive overview of the rapidly evolving field of cybersecurity. The session covered fundamental concepts cybersecurity, highlighting its critical safeguarding information and systems against cyber threats.



#### **Career Connect Event**

Sept 13,, 2024

To bridge the gap between the corporate world and academia, career connect event was conducted. Distinguished experts, Ms. Rashi Batra, Vice President at J.P. Morgan, and Ms. Ankita Mendiratta, Business Analyst at Bank of New York shared valuable insights into the latest trends and technologies in the IT industry, providing guidance on career opportunities, skill development, and the evolving role of technology in various engineering fields.

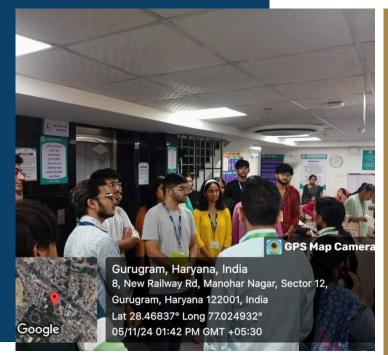




#### **Indian Mobile Congress-2024**

Oct 16, 2024

DPGitian's attended the IMC 2024 at Bharat Mandapam, New Delhi ,where the future of 5G, AI, and next-gen technologies took center stage. The event provided a platform for insightful discussions on how these cutting-edge technologies are poised to drive digital transformation across various industries.



### Exposure and Field Visit to CanWinn Hospital

Nov 5, 2024

Final-year students had the opportunity to participate in an educational visit to CanWinn Hospital, Gurugram. Visit aimed to expose students to real-world applications of technology in the healthcare sector, emphasizing the alignment with several United Nations Sustainable Development Goals (SDGs), including SDG 3: Good Health and Well-being, SDG 4: Quality Education, SDG 9: Industry, Innovation, and Infrastructure, and SDG 17: Partnerships for the Goals.







### **CodeX Challenge Bootcamp**

Nov 13, 2024

The CodeX Challenge Bootcamp consisted of three rounds, each designed to test different aspects of coding proficiency. Students demonstrated exceptional coding skills and problem-solving abilities throughout the event. They were awarded certificates and accolades for their remarkable performances. The Code X Challenge Bootcamp successfully achieved its objective of fostering innovation, teamwork, and analytical thinking among students.

# **ACHIEVE MENTS THAT INSPIRE!!**



### Trailblazers of Knowledge

Our students successfully completed NPTEL courses, setting benchmarks of excellence in learning and innovation.

NPTEL courses offer numerous benefits, including access to high-quality education from premier institutes like IITs and IISc, flexibility in learning, and the opportunity to enhance technical knowledge and skills aligned with industry requirements. This achievement highlights the dedication and hard work of the students, with 2 students earning prestigious Gold Certificates, 6 students securing Silver Certificates, and several others achieving Elite Certificates.

### **Securing Top Internship Opportunities!!**



Ms. Shreya Rai B.Tech CSE-DS(2021-2025) IBM Skill Build



Ms. Soniya
B.Tech CSE (2021-2025)
Gurugram Police Cyber Security
Summer Internship (11th Edition) &
IFSO Special Cell, Delhi Police

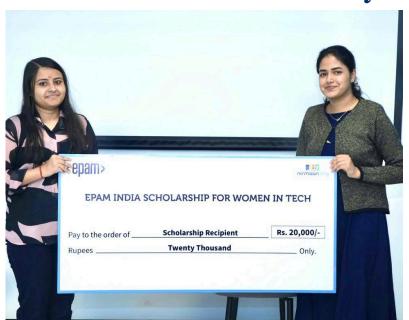


Mr. Raman
B.Tech CSE-DS(2021-2025)
Gurugram Police Cyber Security
Summer Internship (11th Edition)



Ms. Shreya B.Tech CSE (2021-2025) NITI AAYOG

### **Our Scholars Lead the Way!!**



EPAMIndia WomenInTech Scholarship 2024 proudly awarded to Ms. Nishu Sharma, Ms. Akshara and Ms. Sneha from B.Tech CSE 5th Sem. By providing financial aid, mentorship and skills training, the initiative bridges the gender gap in IT education and opens up new avenues for learning and development.



### **ACHIEVE MENTS THAT INSPIRE!!**



#### Student Recognition Award-IBM

Shreya Rai , B.Tech CSE-DS (2021-2025), selected from 4,000 participants for the prestigious IBM SkillsBuild Internship, focusing on AI and Cloud technologies. This enriching journey allowed her to develop essential skills and contribute to exciting projects.

At the IBM CSR Annual Event 2024, Shreya had the honor of presenting her project to IBM delegates and industry leaders. Adding to this milestone, she was awarded the Student Recognition Award for her exemplary performance throughout the program.



#### **Microsoft Moments!!**

Garima, Harsha Yadav and Aaryan Bhardwaj from B.Tech CSE-DS, Batch 2021-2025, represented DPGITM at Microsoft's Annual Giving Campaign. Visiting Microsoft for the first time, they found the experience profoundly insightful and inspiring, gaining valuable exposure to impactful initiatives.





# Pioneering Cyber Security: 25 Students Earn International Certification!!

25 Students Earn XPMC Cyber Security Certificates from **Federation University**, **Australia**. This Cybersecurity Experiential Microcredentials (XPMC) aims to prepare engineering students on Ransomware Analysis and Detection. Understanding these processes will help learners in overcoming the most critical challenge faced by organisations in the fast-evolving digital era.

# **ACHIEVE MENTS THAT INSPIRE!**







# Bridging the Gaps, Building Opportunities

- MOU signed with the National Center for Skill Development & Entrepreneurship (NCSDE). Through this MoU, we will jointly implement initiatives aligned with NEP 2020, including skill development, vocational training, internships, apprenticeships, and industry-oriented learning programs.
- MOU signed with Vanillakart, an exceptional project based online learning program with atal incubation center NITTE, Net zero foundation government of India. enabling students to learn new skills and advance their carrier in the area of web designing, AI, entrepreneurship, PR and communications.

## **Shining Bright: University Toppers**





















### RESEARCH PUBLICATIONS

- Chaudhary, S., Nehra, R., Kumar, K., Dahiya, S., Nandan, D., Kumar, S. (2024). "Dementia Alzheimer's disease diagnosis using convolutional neural networks on two-dimensional MRI slices", Revue d'Intelligence Artificielle, vol. 38, No. 1, pp. 81-91.
- U. Pilania, M. Kumar, S. Chaudhary and V. Mittal (2024). "Detection of Safety Helmets Using YOLOv5s Model", 2024 2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS), Coimbatore, India, pp. 1266-1270.
- Yadav, S., Vadhera, R., Dahiya, N., Chaudhary, S., & Jatain, A. (2024). "Cutting-edge machine learning techniques for early Alzheimer's disease diagnosis", High Technology Letters, 30(10).
- Sharma, C., Vadhera, R., & Chaudhary, S. (2024). "Progress in healthcare: Utilizing machine learning for the diagnosis of polycystic ovary syndrome", International Journal of Engineering Research in Computer Science and Engineering (IJERCSE), 11(07), 177–181.
- Sharma, R., Vadhera, R., & Chaudhary, S. (2024). "Unveiling emotions: Analyzing human sentiments through speech signals by using MFCC and CNN", International Journal of Engineering Research in Computer Science and Engineering (IJERCSE), 11(08), 183–191.
- Raghav Bokare, Meenakshi Gupta, Dr Mukesh Yadav (2024). "Optimised face mask recognition using gradient boosting classifier", International Conference on Computational Intelligence and Communication Networks (ICCICN 24).
- Prasad's., Yadav, M., Rohilla, A. (2024). "Synergies in Modern Architecture: Microservices with Serverless/ Cloud and edge Computing", Journal of Emerging Technologies & Innovative Research (JETIR-UGC), vol.11, issue 11.
- Dwivedi, S.(2024). "Robotics, Artificial Intelligence and Information Theory", book chapter published by Vikas Publishing House.
- Dwivedi, S., Rohilla, A. "Advanced AI-Based Sprinkler System for Irrigation", copyright number 202411069185, patent filed on September 12,2024.
- P.Goel, S.Chaudhary (2023). "Maximizing Anomaly Detection Performance in Next-Generation Networks", Journal of Cybersecurity and Information Management, vol.12, No.2, pp.36-51.
- Jaiswal, A., Singh, D., Soniya, Sharma, P., Chaudhary, S.(2024). "Comparative analysis of Heart Disease Prediction algorithms", High technology letters, vol 30, issue 10, pp.430-444.
- Saini, S., Sharma, P., Chaudhary, S.(2024). "Network Attack Detection based on deep learning techniques", High Technology Letters, Vol 30, issue 10, pp. 399-408.
- Jada, P., Sharma, P., Chaudhary, S.(2024). "A Review on Downtime & Reliability Issues in Cloud Service", Journal of Emerging Technologies & Innovative Research, vol 11, issue 11.
- Rathore, N., Sharma, P., Chaudhary, S., Nehra, R.(2024). "Comparative Analysis of Real Time Object Detection Methods Using Machine Learning ",Journal of Emerging Technologies & Innovative Research, vol 11, issue 11, pp. 440-447.
- Shreya, Sharma, P., Chaudhary, S. (2024). "Diagnosis of Autism in children using federated learning", High Technology Letters, vol 30, issue 10.

# **FACULTY CONTRIBUTIONS TO**

## **EXCELLENCE**



Dr. Sarika Chaudhary
Associate Dean Academics
HOD CSE-AIML/DS

- Delivered a session on "Benchmarking of the Subject" highlighting the importance of good practices in educational institutions.
- Completed NEP Orientation and Sensitization Programme organized by Malaviya Mission Teacher Training Centre, Shri Ram College of Commerce from Oct 1, 2024 to Oct 10, 2024 (MMC-138-2024-OCT-A-02597) under MoE, Government of India.
- Attended 14th edition of DIDAC India, India's Only International Exhibition and Conference for the Education and Skills Sector.
- Attended one-day workshop on "Multiple Entry & Multiple Exit and Academic Bank of Credit (ABC) in the context of National Education Policy (NEP), organised by AICTE and Shiksha Sanskriti Utthan Nyas, at AICTE HQ on 20 July, 2024.
- Earned 15-credits"International Certified Career Coach" certification.
- SPOC for the first batch of the XPMC program in collaboration with Employability.life and Federation University of Australia.
- Faculty coordinator for initiation of cyber security club-RAKSHAVEDA.
- MoU with the National Center for Skill Development & Entrepreneurship to implement initiatives aligned with NEP 2020, including skill development, vocational training, internships, apprenticeships, and industry-oriented learning programs.



Dr. Poonam Sharma Assoc. Prof. CSE-AIML/DS

- Faculty coordinator for initiation of cyber security club-RAKSHAVEDA.
- NEP orientation and sensitisation programme by UGC, shri ram college Delhi.
- Attended FDP on "Generative AI foundations applications and future directions" from 18th Nov. to 22nd Nov. by IIT Kanpur.
- MoU signed with Vanillkart for giving students opportunities to learn multiple courses from goverment organizations in Artificial intelligence, data science and IT.



Ms. Meenakshi Gupta
Asst. Prof. CSE-AIML/DS

- Resource person in a 2-day workshop on 'Python for Data Science,' held on 17-18 July 2024, at DPGITM.
- SDP on "BIG DATA ANALYTICS: RECENT TRENDS, TOOLS AND TECHNIQUES," from Oct 21 to Oct 25, 2024, organized by NCU, Gurugram.
- "NEP-ORIENTATION & SENSITIZATION PROGRAMME," held from Aug 6 to Aug 16, 2024, organized by UGC, SGTB Khalsa College, University of Delhi.
- Attended FDP on "Universal Human Values in Education" from June 24 to June 28, 2024, organized by AICTE.



Ms. Archana
Asst. Prof. CSE-AIML/DS

- "Universal Human Values in Education" conducted from May 20 to May 24, 2024, organized by AICTE.
- FDP on "IPR" conducted from July 15 to July 20, 2024, organized by IIMT College of Engineering, Greater Noida.
- "NEP-2020
  ORIENTATION &
  SENSITIZATION
  PROGRAMME," held
  from Sep 17 to Sep 27,
  2024, organized by UGC,
  SGTB Khalsa College,
  University of Delhi.

## **FACULTY CONTRIBUTIONS TO**

### **EXCELLENCE**



Dr. Mukesh Yadav Professor & Dean Academics

- Appointed as Member of Board of Studies in Faculty of Engineering and Technology, Maharishi Dayanand University, Rohtak for a period of two years w.e.f. June 5, 2024.
- Attended one-day workshop on "Multiple Entry & Multiple Exit and Academic Bank of Credit (ABC) in the context of National Education Policy (NEP), organised by AICTE and Shiksha Sanskriti Utthan Nyas, at AICTE HQ on 20 July, 2024.



Ms. Renu Vadhera
Asst. Prof. CSE-AIML/DS

- Resource person in a 2-day workshop on 'Python for Data Science,' held on 17-18 July 2024, at DPGITM.
- SDP on "BIG DATA ANALYTICS: RECENT TRENDS, TOOLS AND TECHNIQUES," from Oct 21 to Oct 25, 2024, organized by The North Cap University, Gurugram.
- "NEP-ORIENTATION &
   SENSITIZATION
   PROGRAMME," held from Aug
   6 to Aug 16, 2024, organized by
   UGC-Malaviya Mission
   Teacher Training Centre, SGTB
   Khalsa College, University of
   Delhi.
- Attended FDP on "Universal Human Values in Education" from June 24 to June 28, 2024, organized by AICTE.



Ms. Smriti Dwivedi
Asst. Prof. CSE-AIML/DS

- "Universal Human Values in Education" conducted from May 20 to May 24, 2024, organized by AICTE.
- FDP on "Intellectual Property Rights" conducted from July 15 to July 20, 2024, organized by IIMT College of Engineering, Greater Noida.
- "NEP-2020
   ORIENTATION &
   SENSITIZATION
   PROGRAMME," held
   from Sep. 17 to Sep. 27,
   2024, organized by UGC Malaviya Mission
   Teacher Training Centre,
   SGTB Khalsa College,
   University of Delhi.



Ms. Rakhi Sharma
Asst. Prof. CSE-AIML/DS

- Faculty coordinator for initiation of cyber security club-RAKSHAVEDA.
- SDP on "BIG DATA ANALYTICS: RECENT TRENDS, TOOLS AND TECHNIQUES," from Oct 21 to Oct 25, 2024, organized by The NCU, Gurugram.
- "NEP-ORIENTATION & SENSITIZATION
   PROGRAMME," held from Aug 6 to Aug 16, 2024, organized by UGC-Malaviya Mission Teacher Training Centre, SGTB Khalsa College, University of Delhi.
- MoU with NCSDE to implement initiatives aligned with NEP 2020, including skill development, vocational training, internships, apprenticeships, and industryoriented learning programs.

### **BEYOND CAMPUS**



#### **Indian Mobile Congress 2024**

We had the privilege of attending IMC 2024, where groundbreaking advancements in 5G, AI, and next-generation technologies took center stage. The event showcased innovative solutions driving digital transformation across industries, leaving us truly inspired.



### **AICTE Workshop**

Faculty participated in a workshop on 'Multiple Entry & Multiple Exit & Academic Bank of Credit (ABC)' in the context of the National Education Policy (NEP). The workshop was held at AICTE Headquarters on 20th July 2024 under the leadership of AICTE Chairman, Prof. T.G. Sitharam.



### **DIDAC 2024 India**

14th edition of DIDAC India, India's Only International Exhibition and Conference for the Education and Skills Sector was held at Yashobhoomi, New Delhi, where Faculty & students gained invaluable insights on AI-powered learning and frameworks for future readiness.

# **SPECTRUM OF CELEBRATIONS**

**Unfolding Memories, Unity, and Joy** 





REPUBLIC DAY 2024















# **SPECTRUM OF CELEBRATIONS**

**Unfolding Memories, Unity, and Joy** 













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# **SPECTRUM OF CELEBRATIONS**

**Unfolding Memories, Unity, and Joy** 



















# ONE TEAM, INFINITE IMPACT



# **OUR EDITORIAL TEAM**



Dr. Sarika Chaudhary
Associate Dean Academics
HOD CSE-AIML/DS



Ms. Arpita Mendiratta
Asst. Prof. CSE-AIML/DS



Ms. Rakhi Sharma
Asst. Prof. CSE-AIML/DS



Dr. Poonam Sharma
Assoc. Prof. CSE-AIML/DS

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