DR.AKHILESH DAS GUPTA
INSITUTE OF PROFESSIONAL STUDIES
(Formerly Dr. Akhilesh Das Gupta Institute of Technology And Management)
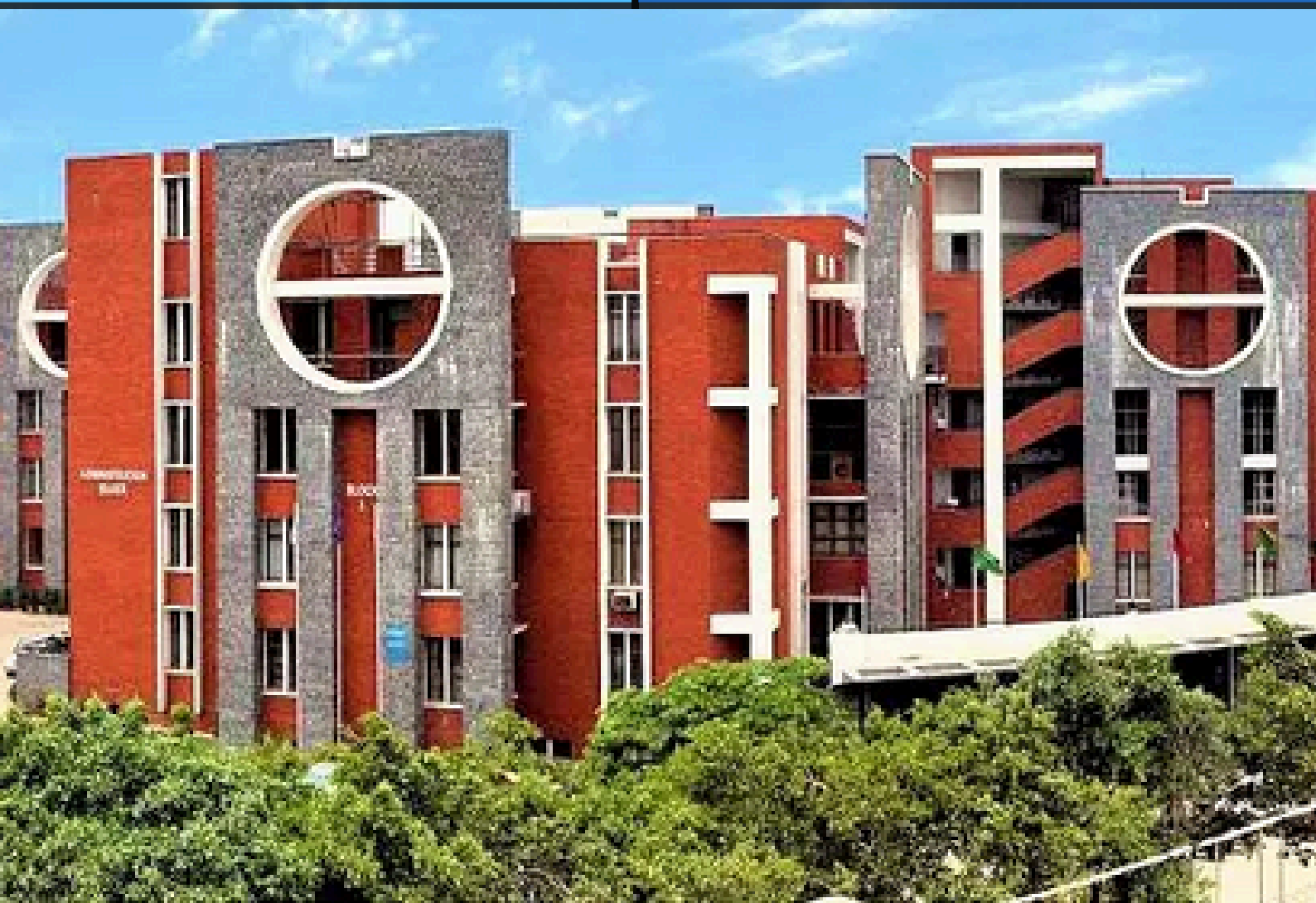
ADG
Institute of Professional Studies

BBD

NEWSLETTER

2024-25 (Part-II)

AI&DS INSIGHTS
2024-2025

Department of Artificial Intelligence & Data Science

Message From Head of Department

Prof. (Dr.) Archana Kumar

Dear Readers,

Greetings!

It gives me great pleasure to present the second edition of the AI & Data Science (AI&DS) Department Newsletter. This edition highlights the achievements, innovations, and vibrant activities undertaken by our students and faculty.

Our department is committed to nurturing future-ready professionals equipped with strong fundamentals in Artificial Intelligence and Data Science. With a dynamic academic environment and a team of dedicated and experienced faculty members, we strive to inspire our students to develop technical excellence, critical thinking, and a spirit of collaboration.

At ADGIPS, we believe in holistic development. We provide students with ample opportunities to grow through a well-balanced blend of curricular, co-curricular, and extracurricular engagements. It is our constant endeavor to empower students to explore their potential, sharpen their skills, and become responsible contributors to society and the industry.

I am confident that the learning journey here will be enriching and transformative for every student. As the Head of the Department, I take immense pride in being part of an institution that prioritizes the all-round development and education of its students.

Warm wishes to all as we continue striving for excellence.

Prof. (Dr.) Archana Kumar

Head of the Department

Artificial Intelligence & Data Science

ADGIPS

VISION

To enable the modern society with skilled engineers in the field of Artificial Intelligence & Data Science, thereby bringing transparency and effectiveness in decision making for the overall welfare of mankind.

MISSION

Mission 1: To produce competent Artificial Intelligence & Data Science professionals to serve the needs of society.

Mission 2: To prepare industry-ready engineers, trained in modern tools and techniques of Artificial Intelligence & Data Science.

Mission 3: To foster innovative research work in the area of Artificial Intelligence & Data Science and allied areas, leading to quality decision-making.

PEO

PEO 1

Graduates shall thrive in the field of Artificial Intelligence & Data Science by utilizing their gained knowledge and abilities to build practical and viable engineering solutions.

PEO 2

Graduates shall be adaptable to new technologies and advances in order to achieve professional excellence.

PEO 3

Graduates shall be able to effectively manage resources and pursue their careers with integrity, ethics, and social responsibility.
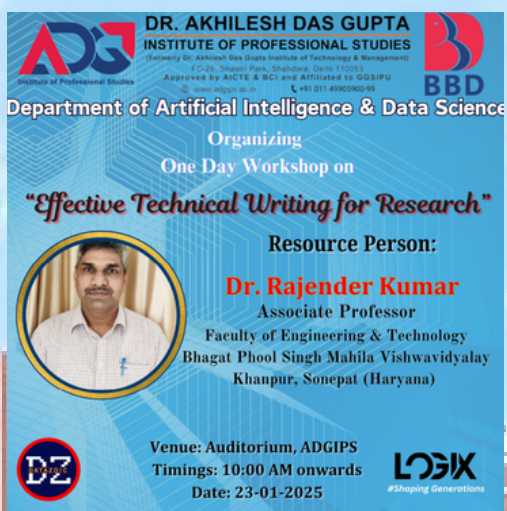
One-Day Workshop on
"Effective Technical Writing for Research"
23rd January 2025

The Department of Artificial Intelligence & Data Science organized a one-day workshop on "Effective Technical Writing for Research", aimed at enhancing the academic writing skills of students and faculty.

The session was conducted by Dr. Rajender Kumar, Associate Professor, Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur, Sonepat. He shared valuable insights on research paper structuring, citation styles, and common writing challenges.

The workshop benefitted both students and faculty members by improving their understanding of professional research documentation and fostering a strong foundation in technical communication.

Valorant Vortex 2025 – Esports Tournament
20th February 2025

Event Overview:

The Department of Artificial Intelligence & Data Science hosted Valorant Vortex 2025, an electrifying one-day esports tournament that brought together passionate gamers to compete in the fast-paced world of Valorant. Designed to test strategy, reflexes, and teamwork, the event saw enthusiastic participation from eight teams vying for the top spot.

The tournament was held in three stages:

- Group Stage: Two groups of four teams each competed in a Best of 1 (BO1) format, where adaptability and quick decision-making were crucial.
- Semi-Finals: The top two teams from each group faced off in intense BO1 matches to secure a place in the final.
- Finals: The grand finale featured a thrilling Best of 3 (BO3) battle, demanding peak performance, coordination, and tactical mastery.

Results:

- 🥇 1st Position: Team Tesseract
- 🥈 2nd Position: Team H.A.S.

Free Fire Tournament – "BR Squad" @ Utkarsh 2025
Date: 19th February 2025

Event Overview:

As part of Utkarsh 2025, the Annual Fest of ADGIPS, the Free Fire Tournament – "BR Squad" was successfully conducted by the DataZoic team. The tournament aimed to foster competitive spirit, teamwork, and strategic acumen among gaming enthusiasts.

Event Highlights:

- The event witnessed the enthusiastic participation of 50 players, showcasing their gaming prowess and quick reflexes.
- Proceedings began with a briefing on tournament rules, fair play, and match format.
- Multiple elimination rounds were conducted, each escalating in intensity and excitement.
- Participants displayed remarkable coordination, tactical gameplay, and team synergy throughout the matches.
- The grand finale delivered a nail-biting experience, with Mr. Harsh (B.Tech 2nd Year) emerging victorious, demonstrating exceptional skill and strategy.

Real vs AI Challenge – "Unmask AI" @ Utkarsh 2025
19th February 2025

Event Overview:

As part of Utkarsh 2025, the Annual Fest of ADGIPS, the innovative Real vs AI Challenge – "Unmask AI" was organized by the enthusiastic students of S13 under the banner of DataZoic. The event was designed to pit human intuition against artificial intelligence through a series of thrilling and interactive rounds.

Event Highlights:

- The challenge drew 20+ participants, eager to test their quick thinking and decision-making skills against AI challengers.
- The event kicked off at 2:00 PM with a concise briefing on rules, round structure, and fair play protocols.
- Participants navigated through three gripping rounds, each more challenging and exciting than the last.
- The final round was an intense showdown, where Mr. Rohit Sharma (B.Tech 2nd Year) emerged as the winner, demonstrating exceptional analytical thinking and strategy.

Industrial Visit
AICTE Idea Lab – Tech Fest 2025
7th March 2025

On 7th March 2025, B.Tech (AI & DS) 2nd and 3rd year students visited the AICTE Idea Lab Tech Fest at AICTE, Delhi. The visit, led by Mr. Ritesh Kumar, Assistant Professor, aimed to provide exposure to innovative technologies and real-world AI applications.

The event began with a welcome session introducing the mission of the Idea Lab in fostering innovation. Students explored live demos of AI-based projects, including robotics, IoT, automation, 3D printing, and AI simulations. Workshops on "The Future of AI in Industry" and "AI for Social Good" offered insights into emerging trends and societal applications of AI.

A wide range of projects were exhibited, covering areas like healthcare monitoring, traffic control using computer vision, financial analytics, and industrial automation. The visit also provided excellent networking opportunities with innovators, startup founders, and peers from other institutions.

Students found the experience highly valuable, gaining motivation and ideas for future AI-based projects. Their reflections highlighted the practical learning, expert interactions, and inspiration drawn from the showcased innovations.

The visit successfully strengthened students' understanding of the AI ecosystem and encouraged active participation in research and startup initiatives.

Three-Days Training Workshop on Indigenous 5G Testbed Project @ IIT Delhi
March 19–21, 2025

A three-day training workshop on the Indigenous 5G Testbed Project was conducted at IIT Delhi from March 19 to 21, 2025, for B.Tech 2nd-year students of Artificial Intelligence & Data Science. The program aimed to provide hands-on exposure to 5G technologies, IoT integration, and network security.

Day 1 focused on the 5G physical layer, covering topics such as 5G New Radio, OFDM, NOMA, massive MIMO, and beamforming. Students observed live demonstrations using the Indigenous 5G Testbed and explored AI applications in signal optimization.

Day 2 centered on IoT integration, featuring sessions on device connectivity, edge computing, cloud integration, and practical IoT setups using 5G. Hands-on exercises deepened students' understanding of AI-powered IoT systems.

Day 3 addressed network security, covering threats in 5G and IoT, authentication, encryption, AI-driven intrusion detection, and the use of blockchain. Experts shared insights on cybersecurity best practices and future trends.

The workshop concluded with a certificate distribution and discussions on future collaboration in India's 5G ecosystem. It was a highly enriching experience, bridging theoretical knowledge with real-world applications.

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Expert Lecture on
"Plant Diseases Prediction Using AI and ML"
7th April 2025
Speaker: Dr. Anuradha Chug,
ASSOCIATE PROFESSORUSICT, GGSIPU, DELHI

The Department of Artificial Intelligence and Data Science organized an expert lecture on "Plant Diseases Prediction Using AI and ML" to explore the intersection of technology and agriculture. Delivered by Dr. Anuradha Chug, Associate Professor, USICT, GGSIPU., DELHI. the session aimed to showcase how AI and machine learning can revolutionize plant health monitoring and disease prediction.

The lecture introduced students to the fundamentals of AI and ML, common plant diseases, and traditional versus modern detection methods. Dr. Chug highlighted how algorithms like Decision Trees, Random Forest, Neural Networks, and CNNs enhance prediction accuracy, especially in image-based diagnostics.

A practical demonstration followed, using Python, TensorFlow, and OpenCV, where students observed the process of data collection, model training, and real-time disease detection using plant images.

An engaging Q&A session allowed students to discuss model performance, data sourcing, and the broader impact of AI in agriculture.

Expert Lecture on "Opportunistic Networks: A Communication Framework for Remote Regions"
17th April 2025
SPEAKER: Dr. Seema Jangra, Assistant Professor, Indraprastha College for Women, DELHI UNIVERSITY, DELHI

The Department of Artificial Intelligence and Data Science organized an expert lecture on "OPPORTUNISTIC NETWORKS" the primary objective of the expert lecture was to introduce students and faculty to the emerging concept of opportunistic networks (OPPNETS) and to explore its role as a novel communication paradigm for environments with limited or no infrastructure, such as remote or disaster-affected regions. Dr. Seema Jangra, Assistant Professor, Indraprastha College for Women, University of Delhi, Delhi was the speaker.

She emphasized the importance of innovative, flexible, and intelligent solutions to connect the unconnected, resonating deeply with the department's mission to blend technology with social relevance.

The session sparked interest in exploring unconventional networking models for socially impactful applications.

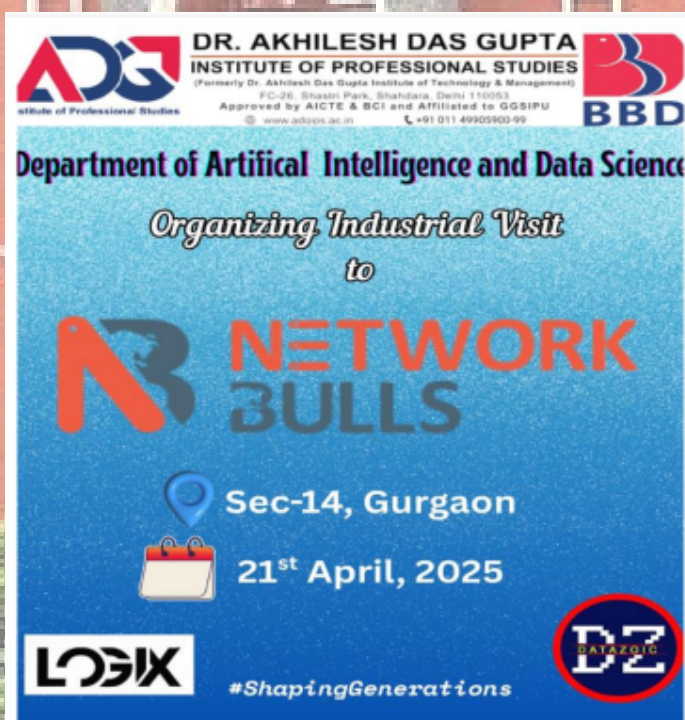# Industrial Visit to Network Bulls, Gurugram
21st April 2025

TThe Department of Artificial Intelligence and Data Science organized an industrial visit to Network Bulls, a renowned Cisco training center, on 21st April 2025. The objective was to provide students with practical exposure to real-world networking infrastructure and its significance in AI and Data Science applications.

The visit began with a welcome session and orientation on networking fundamentals and their integration with cloud computing and AI systems. Students toured one of India's largest Cisco labs, witnessing live setups of routers, switches, and firewalls, along with demonstrations on how networking supports real-time data transfer and AI model deployment.

A technical workshop introduced students to IP addressing, distributed computing, and IoT-based AI applications. The visit concluded with an interactive Q&A session with industry experts, who shared career advice and insights on combining network engineering with AI/ML for enhanced system performance.

Learning Outcome:
 Students gained valuable hands-on experience and a better understanding of how networking underpins AI-driven architectures. The visit sparked interest in pursuing network certifications to complement their AI & DS skill set.
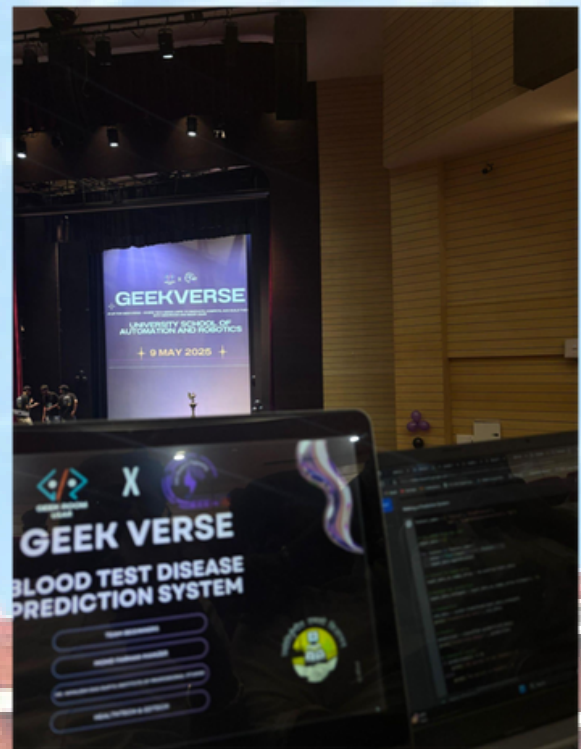
Extracurricular Activities

GEEKVERSE USAR
Proud to share that our team—Mohd Farhan Manzer, Saksham Aggarwal, and Bhavya Bansal—achieved a Top 10 spot at the prestigious GEEK ROOM – USAR x IEEE WIE Innovation Challenge, hosted by the University School of Automation & Robotics (USAR) on 9th May 2025!

The competition brought together some of the brightest minds in tech and robotics, and we're honored to have stood out among such incredible talent.

Faculty Achievements

The faculty performance and achievement list for the academic session 2024-25

Prof. (dr.) Archana kumar

- 3 Research paper
- SWAYAM NPTEL certification in big data computing
- 4 FDPs

Mr. Ritesh Kumar

- 3 research papers
- 1 Scopus-indexed international conference
- Swayam NPTEL certification in Data Structure & algorithm using python
- Swayam NPTEL certification in INTRODUCTION TO MACHINE LEARNING
- 4 FDPs

Dr . yatu rani

- 3 research papers
- 1 Scopus-indexed international conference
- 3 FDPs

Ms. Manisha Sharma

- 1 research paper
- 1 FDPs

Ms. meenu

- 1 research paper
- 1 FDPs

Ms. dimpy

- 3 FDPs

Mr. Ankur Jain.

- 1 FDPs

Editorial Board

Prof. (Dr.) Archana Kumar
(Faculty Incharge)

Ms. Meenu
(Faculty co-Incharge)

Students Editors

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PALLAVI VERMA (2 YEAR AI&DS)
JYOTI (3 YEAR AI&DS)
KASAK (3 YEAR AI&DS)