



**6 DAY ONLINE FACULTY DEVELOPMENT PROGRAM
ON
“GENERATIVE AI: TECHNIQUES, TOOLS, AND
APPLICATIONS”
FEBRUARY 03 - 08, 2025**

AIM & OBJECTIVES

FDP promises a multitude of deliverables aimed at enriching participants' understanding and practical skills in Generative AI. Additionally, discussions on emerging research directions will provide valuable insights into the future trajectory of Generative AI, inspiring participants to explore new avenues and contribute to cutting-edge developments. It will cover Explainable AI Models, Responsible AI, and Popular Computer Vision Architectures for Classification and Clustering, Trends in Sequence Modeling such as RNN, LSTM, and GRU, Large Language Models (LLMs), Generative Modeling with GAN, Bias Mitigation and Fairer ML Architectures, Optimization for Deep Learning, and Diffusion Models



Organized By

**Dept. of Computer Science &
Engineering**



**National Institute of Technology Delhi,
Plot No. FA7, Zone P1, GT Karnal Road,
Delhi-110036**

About NIT, Delhi

National Institute of Technology Delhi (NITD) is one of the thirty one NIT (s) established in the year 2010 by an Act of Parliament. The Institute has been declared as an Institute of National importance. NIT Delhi ranked 45 in Engineering Category by NIRF 2024. NIT Delhi is an autonomous Institute which functions under the aegis of Ministry of Education, Government of India. It aims to provide instructions and research facilities in various disciplines of Engineering, Science and Technology, Management, Social Sciences and Humanities for advance learning and dissemination of knowledge

About CSE Department

We provide comprehensive B. Tech and M. Tech programs in Computer Science and Engineering, equipping our students with a strong foundation and specialized knowledge. The Department started in 2010 with the intake of 30 which presently has increased to 120. Besides two M Tech programmes in CSE and CSE(Analytics), we offer Ph.D. programs in various crucial areas, promoting advanced research and scholarly pursuits. To name a few Algorithms, Computer Networks, Data Warehousing and Data Mining, Software Engineering, Machine Learning, Image Processing, Web Technologies, Data Analytics, Complex Networks, Wireless Sensor Networks etc. Our research facilities include state-of-the-art labs for Ubiquitous Computing, Computational Intelligence & Smart Motion Research (CISMR), Data Science, Databases, Networking and Programming, enabling students and faculty members to explore innovative solutions and advancements in these domains. Through these labs, we encourage hands-on experience, collaboration, and interdisciplinary research.

**No Fee for Registration, Course
and Certification**

EXPERT SPEAKERS



Dr. Abhay Gupta,
*Executive Director, Efficient World,
Vancouver, Canada*



Dr. Abhinav Dhall,
*Associate Professor, Monash
University, Australia*



Dr. Tanmoy Chakraborty,
IIT Delhi



Dr. Bapi Chatterji,
IIIT Delhi



Dr. R K Agrawal,
JNU, Delhi



Dr. Kamlesh Tiwari,
BITS Pilani



Dr. Namita Mittal,
MNIT Jaipur



Dr. Dushyant Singh,
NIT Allahabad



Divyesh Dixit,
*Co-Founder
BambooBox*



Dr. Krishna Kumamuru,
*Principal Director AI Innovations
& Products, Accenture Ops*



Dhiraj Madan,
IBM



Dr. Mohit Jain,
Microsoft



Debayan Chakraborty,
Accenture Ops AI R&D Team

ATAL Online 6 Day Faculty Development Programmes 2024-25 Schedule

Participants Eligibility

- Post Graduate Students
- Research Scholars
- Faculty Members
- Industry Professionals

Coordinator



Dr. Anurag Singh,
Associate Professor,
NIT Delhi,
Years of Experience: 18
Contact:-7835014014

Co-Coordinator



Dr. Karan Verma,
Associate Professor,
NIT Delhi,
Years of Experience: 10
Contact: 8003389258

REGISTRATION

No Charge for Registration,
Course and Certification

Student Coordinators

Mr. Ankur :- 9896592476
Mr. Shivank :- 9554741467
Mr. Sonu:-9729215898
Mr. Parvej:-6387480183
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FDP Thrust Area: Advanced Computing (Supercomputing, AI, Quantum Computing)
FDP Title: Generative AI: Techniques, Tools, and Applications
Start Date: Feb 03, 2025
End Date: Feb 08, 2025

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
6:00 PM to 6:30 PM Inaugural Session	6:00PM to 7:30 PM Session 3 Topic: Training the Generative Modelling Name of the Expert: Dr. Bapi Chatterjee Designation & Organization: Assistant Professor, IIIT Delhi Years of Exp: 10	6:00 PM to 7:30 PM Session 5 Topic: Adversarial training for generative modelling Name of the Expert: Dr. Kamlesh Tiwari Designation & Organization: Associate Professor, BITS Pilani Years of Exp: 12	6:00 PM to 7:30 PM Session 7 Topic: Towards Generative Modelling Name of the Expert: Dr. Dushyant Singh Designation & Organization: Associate Professor, MNNIT, Allahabad Years of Exp: 12	6:00 PM to 7:30 PM Session 9 Topic: Building GenAI based systems Name of the Expert: Dr. Krishna Kummamuru Designation & Organization: Principal Director AI Innovations & Products, Accenture Years of Exp: 27	2:00 PM to 3:30 PM Session 11 Topic: Diffusion models Name of the Expert: Dhiraj Madan Designation & Organization: Advisory Research Scientist, IBM Research India Years of Exp: 10 years
6:30 PM to 8:00 PM Session 1 Topic: Human-Centred Deepfakes Detection Name of the Expert: Dr. Abhinav Dhall Designation & Organization: Associate Professor, Monash University, Australia Years of Exp: 17	7:30 PM to 9:00 PM Session 4 Topic: Vision transformer model and its application Name of the Expert: Dr. R K Agrawal Designation & Organization: Professor, JNU, Delhi Years of Exp: 30	7:30 PM to 9:00 PM Session 6 Topic: Nut and bolt of transformers Name of the Expert: Dr. Namita Mittal Designation & Organization: Associate Professor, MNIT, Jaipur Years of Exp: 27	7:30 PM to 9:00 PM Session 8 Topic: Generative AI application in marketing Name of the Expert: Divyesh Dixit Designation & Organization: Co-Founder BambooBox Years of Exp: 15	7:30 PM to 9:00 PM Session 10 Topic: LLM agent types, application and future scope Name of the Expert: Debayan Chakraborty Designation & Organization: Ops AI R&D Team, Accenture Years of Exp: 10	3:30 PM to 5:00 PM Session 12 Topic: GEN AI work in Healthcare Name of the Expert: Dr. Mohit Jain Designation & Organization: Principal Researcher, Microsoft Research Lab India Years of Exp: 17
8:00 PM to 9:30 PM Session 2 Topic: Don't underestimate the power of small language models Name of the Expert: Dr. Tanmoy Chakraborty Designation & Organization: Associate Professor, IIT Delhi Years of Exp: 11					5:00 PM to 6:30 PM Session 13 Topic: Building GenAI Based Systems Name: Dr. Abhay Gupta Designation & Organization: Executive Director, Efficient World, Vancouver, Canada Year of Exp: 23
					6:30 PM to 7:30 PM Online test & feedback
					7:30 PM to 8:00 PM Valedictory Session