

REGISTRATION & CERTIFICATES

- No Registration Fee.
- Certificates will be provided to all the participants upon successful completion of Workshop

WHO CAN ATTEND?

- Faculty members
- Research scholars
- Academicians
- Industry professionals

KEY TAKEAWAY

- Fundamentals of Generative AI & LLMs
- Hands-on AI tools and cloud platforms
- Ethical and Responsible AI practices
- Industry-ready curriculum development
- Research and innovation opportunities

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**CGC COLLEGE
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(AICTE)**

Sponsor

Two Day Workshop
on

Generative AI and Advanced Data Analytics: Architectural Frameworks, Ethics, and Industrial Applications

25-26 November 2026

Organized By:-
Department of Computer Science Engineering
CGC College of Engineering
Landran , Sector 112, Greater Mohali,
Punjab 140307

ABOUT THE INSTITUTION

CGC College of Engineering (CGC COE), affiliated with IKGPTU, Jalandhar and approved by AICTE, is a reputed private engineering institution in Chandigarh, Punjab. The college focuses on delivering industry-oriented education through innovative teaching methods and practical exposure, preparing students to meet real-world challenges and career opportunities. It is a place where talent meets opportunity and potential turns into success.

ABOUT CSE DEPARTMENT

The Department of Computer Science & Engineering offers a 4-year B.Tech program in Computer Science & Engineering at the undergraduate level. At the postgraduate level, it offers M.Tech in Computer Science & Engineering. The various subjects covered in the Bachelor of Technology are Software Engineering, Design and Analysis of Algorithms, Operating Systems, Database Management Systems, Computer Networks, etc. These subjects have been selected after consulting the best companies in the IT Industry. The Department has undertaken credible projects in the fields of Software Engineering, Cloud Computing, Image processing, Artificial Intelligence, Networking, Machine learning, etc.



ABOUT WORKSHOP

The workshop on “Generative AI and Advanced Data Analytics: Architectural Frameworks, Ethics, and Industrial Applications” aims to provide participants with practical knowledge of Generative AI, Large Language Models (LLMs), advanced data analytics, and Responsible AI practices. The workshop focuses on real-world AI applications, industry-standard tools, cloud platforms, ethics, privacy, and bias mitigation. It also helps participants enhance research capabilities, modernize curriculum as per NEP 2020, and develop industry-ready AI and analytics skills.

TOPICS TO BE COVERED

- Neural Network Architectures: From Perceptrons to Deep Backpropagation
- Advanced Machine Learning Pipelines: Feature Engineering and Hyperparameter Optimization
- Supervised and Unsupervised Paradigms: Dimensionality Reduction using PCA and t-SNE
- Scalable AI: Deploying Deep Learning Models on Cloud Frameworks (AWS/Azure)
- Computer Vision and CNNs: Image Synthesis and Spatial Data Analysis
- The Generative AI Revolution: Architecting Large Language Models (LLMs) and GANs
- Natural Language Processing (NLP): Sequence Modeling and Transformer Foundations
- Responsible AI: Algorithmic Bias, Ethics, and Valedictory Session

