

# Faculty Profile



**Name:** Ms. KIRAN PREET BEDI

**Designation:** Assistant Professor

**Teaching Areas:** Data Science, AI, Predictive Analytics, DAA, Discrete Mathematics, CBNST.

**Research Interests:** Artificial Intelligence Machine Learning, Deep Learning, Natural Language Processing (NLP), Large Language Models (LLMs), Knowledge Graphs and Agentic AI.

## Education

- MBA (Operations & Data Science – Online), NMIMS (2025 – Present)
- M.Tech (Artificial Intelligence), Amity University, Noida (2022 – 2024)
- M.Sc. (Mathematics), Punjabi University, Patiala (2020 – 2022)
- B.Sc. (Mathematics), HNB Garhwal University (2017 – 2020)

## Research Publications

1. Leveraging LLMs for Medication Named Entity Recognition in Multilingual Clinical Data, IEEE (2025)
2. Autonomous Knowledge Graph Construction using Agentic AI and LLMs (2025)
3. Plant Shield: GLCM and KNN Fusion in CNN for Plant Disease Detection, Springer (2025)
4. Diabetes Prediction using Machine Learning (2024)
5. Abnormality Detection in Brain Tissue using Deep Learning, IEEE (2024)
6. Brain Tumor Detection: Comparative Deep Learning Study, IEEE (2024)
7. Alzheimer's Disease Prediction using Machine Learning, IEEE (2023)

## Conferences & Publications

1. ICDPN 2025 – Agentic AI & Knowledge Graphs (Presented)
2. ICDAM 2025 – Plant Disease Detection using Hybrid AI Models (Presented & Published)
3. IC3I 2024 (IEEE) – Brain Tissue Abnormality Detection (Published)
4. IC3SE 2024 – Alzheimer's Disease Prediction (Presented)
5. IEEE Confluence 2024 – Brain Tumor Detection (Published)
6. ICICIS 2025 – LLM-based Clinical NLP (Published)
7. Journals: IJSREM (XAI in Finance), IJNIET (Diabetes Prediction)