

# Kamal Preet Singh

**Overall In-charge / Coordinator, AI-SETU**
The SGT Centre for AI Excellence
Assistant Professor, CSE (AI/ML)
SGT University, Gurugram

AI · Machine Learning · Data Science

## CONTACT


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## HIGHLIGHTS

**500+** Research citations

**9+** Patents / IP filings

**6x** GATE qualified

**UGC–NET** Qualified

## CORE SKILLS

Python · Machine Learning · Deep Learning · NLP · Scikit-learn · TensorFlow / PyTorch · SQL · MATLAB · AWS / Azure · Snowflake · Talend

## Professional Summary


Overall In-charge and Coordinator of AI-SETU, The SGT Centre for AI Excellence, and Assistant Professor in Computer Science & Engineering (AI/ML) at SGT University, Gurugram. Over 8 years of academic experience and international industry experience in data engineering and analytics in Australia. Leads university-wide AI initiatives covering faculty training, AI course development and institutional AI adoption. Teaches AI, Machine Learning, Deep Learning and Data Science through hands-on, project-based learning, with curriculum design aligned to NEP-2020 and Outcome-Based Education (OBE).


## Research Focus

Confidence calibration and uncertainty-aware machine learning, AI-driven learning analytics with personalised educational intervention, and applied AI in real-world and interdisciplinary domains.

## Core Competencies

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|---|---|
| **AI Leadership:** | AI centre coordination, AI adoption strategy, faculty development programmes, institutional transformation |
| **Teaching & Curriculum:** | AI, Machine Learning, Deep Learning, Data Science, MATLAB, OBE, NEP-2020 alignment |
| **Research & Mentorship:** | Student supervision, research projects, patents, interdisciplinary work |
| **Tools & Platforms:** | Scikit-learn, TensorFlow/PyTorch, SQL, Snowflake, Talend, Cloud (AWS/Azure) |

## Academic Experience

### Overall In-charge / Coordinator, AI-SETU
*Oct 2026 – Present*

*The SGT Centre for AI Excellence, SGT University, Gurugram*

- Lead AI-SETU, the university's Centre for AI Excellence, coordinating AI training, AI course development and AI adoption across schools and departments.
- Designing a university-wide AI Foundation course and planning faculty development programmes on AI.
- Coordinate AI-SETU initiatives with the AI Advisor's office and the Research & Development directorate.

### Assistant Professor, CSE (AI/ML)
*Jul 2026 – Present*

*School of Engineering and Technology, SGT University, Gurugram*

- Teach AI & Machine Learning (B.Tech Sem 7) and MATLAB (B.Tech Sem 5) with self-developed course material, quizzes and learning platforms.
- Member of the university transformation team on behalf of the AI team, reviewing and improving institutional units such as the Incubation Centre.
- Built the Student Growth Intelligence Framework (SGIF), an institution-level platform for quizzes, competitive events and learner analytics dashboards.
- Support the R&D Cell, including the rubric and records system for the Structured Faculty Mentoring Programme.

### Assistant Professor
*Aug 2024 – Jul 2026*

*Swami Rama Himalayan University (SRHU), Dehradun*

- Delivered advanced courses in Artificial Intelligence, Machine Learning, Data Science and Deep Learning with emphasis on practical implementation.
- Designed and introduced industry-aligned curriculum including Introduction to Data Science, AI & Robotics and Applied Deep Learning.
- Supervised undergraduate and postgraduate research projects in AI, IoT and Cyber-Physical Systems.
- Conducted applied experiments in learning analytics, predictive modelling and behavioural data analysis.

### Assistant Professor
*Aug 2023 – Aug 2024*

*Maharishi Markandeshwar University, Mullana*

- Taught Machine Learning (Python implementation) and Object-Oriented Programming.
- Integrated real-world datasets and project-based learning approaches to strengthen applied understanding.



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- Guided student innovation projects in predictive analytics and intelligent systems.

**Assistant Professor** *Jul 2015 – Feb 2020*
*University of Petroleum & Energy Studies (UPES), Dehradun*

- Delivered courses in Computer Networks, Cybersecurity, Database Systems and Programming.
- Conducted Faculty Development Programmes (FDPs) on LaTeX, cloud technologies and open-source tools.
- Contributed to institutional accreditation initiatives including NAAC, NBA and NIRF.
- Mentored students for internships, research projects and technical competitions.

**Assistant Professor** *Jul 2013 – May 2015*
*Lovely Professional University (LPU), Jalandhar*

- Taught Data Structures, Programming and Database Systems; supervised laboratory sessions and capstone projects.

## International Industry Experience

**Data Engineer / Data Analyst** *Aug 2022 – Aug 2023*
*HCF Insurance, Sydney, Australia*

- Designed enterprise-scale data pipelines using Snowflake and Talend.
- Built analytics workflows on large datasets (10M+ records) supporting business decision-making.
- Applied machine learning and data processing techniques in real-world systems.

**Associate Data Consultant** *Jan 2022 – Jul 2022*
*Servian (Client: Betfair), Melbourne*

- Delivered data-driven solutions in a client-facing consulting environment.
- Supported large-scale data warehouse migration and analytics workflows.

## Education

**Ph.D. (Part-time, Coursework Stage)** *Pursuing*
*Panjab University, Chandigarh · A Confidence-Aware Learning Analytics Platform for Predictive Learner Modelling and Personalized Educational Intervention*

**Master of IT (Artificial Intelligence and Machine Learning)** *2021*
*University of Melbourne, Australia*

**M.E. Information Security** *2013*
*PEC, Chandigarh*

**B.Tech Computer Science and Engineering** *2011*
*GNDEC, Ludhiana*

**Postgraduate Certificate in Academic Practice (PGCAP)**
*UPES, Dehradun*

## Selected Publications

- **K. P. Singh** et al., "AISISF: An AI-Driven Sustainable Infrastructure and Sovereignty Framework for Emerging Economies," *5th IEEE CISCT*, 2026. DOI: 10.1109/CISCT69589.2026.11726921
- N. Rani, M. Arora, G. D. Makkar, **K. P. Singh** et al., "DC-AIRA: A Decision-Centric AI Reference Architecture for Knowledge Management," *5th IEEE CISCT*, 2026. DOI: 10.1109/CISCT69589.2026.11726894
- S. Preet et al., **K. P. Singh**, "Local Interpretability in Cardiac AI: Identifying Dominant Physiological Predictors Through LIME Methods," *5th IEEE CISCT*, 2026, pp. 546–551. DOI: 10.1109/CISCT69589.2026.11726957
- "CalibML," accepted at *ICSTAIS 2026*.

## Certifications & Recognition

- AWS Certified Cloud Practitioner · Microsoft Azure AI Fundamentals · Microsoft Azure Data Fundamentals
- Selected by the Asian Productivity Organization (APO), Taiwan, for an international seminar · Top 3 nationally in a MyGov challenge (superannuation project)