

# Kamal Preet Singh

Assistant Professor — Artificial Intelligence — Machine Learning — Data Science

India — Email • Portfolio • LinkedIn

400+ Research Citations • 6 Published Patents • 6 x GATE • UGC NET

## PROFESSIONAL SUMMARY

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Assistant Professor in Artificial Intelligence and Data Science with over 8+ years of academic experience and international industry exposure in data engineering and analytics.

Experienced in delivering advanced courses in AI, Machine Learning, Deep Learning, and Data Science, with strong emphasis on hands-on implementation, real-world datasets, and project-based learning.

Proven ability in curriculum design aligned with NEP-2020 and Outcome-Based Education (OBE), research supervision, and interdisciplinary academic collaboration.

## RESEARCH FOCUS

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AI-driven systems for learning analytics, predictive modeling, and intelligent data-driven decision systems.

Current interests include:

- Machine Learning and Deep Learning applications
- Data-driven intelligent systems and analytics
- Applied AI in real-world and interdisciplinary domains

## CORE COMPETENCIES

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**Teaching & Curriculum:** AI, Machine Learning, Deep Learning, Data Science, OBE, NEP-2020 Alignment

**Research & Mentorship:** Student Supervision, Research Projects, Patents, Interdisciplinary Work

**Technical Skills:** Python, Machine Learning, NLP, Deep Learning, Data Analysis

**Tools & Platforms:** Scikit-learn, TensorFlow/PyTorch (Exposure), SQL, Cloud (AWS/Azure)

## ACADEMIC EXPERIENCE

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### Assistant Professor

Aug 2024 – Present

*Swami Rama Himalayan University (SRHU), Dehradun*

- Deliver 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.
- Supervise undergraduate and postgraduate research projects in AI, IoT, and Cyber-Physical Systems.
- Conduct applied experiments in learning analytics, predictive modeling, and behavioral data analysis.
- Actively contribute to interdisciplinary research, patent development, and academic mentoring.

### 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 enhance applied understanding.
- 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 Programs (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 foundational courses in Data Structures, Programming, and Database Systems.
- Supervised laboratory sessions and student capstone projects.

**INTERNATIONAL INDUSTRY EXPERIENCE**

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**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**

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Master of IT (Artificial Intelligence and Machine Learning — University of Melbourne - 2021

M.E. Computer Science — PEC Chandigarh - 2013

B.Tech Computer Science - 2011

**CERTIFICATIONS**

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AWS Certified Cloud Practitioner

Microsoft Azure AI Fundamentals

Microsoft Azure Data Fundamentals

**RESEARCH & SCHOLARLY WORK**

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- 400+ Google Scholar Citations
- 6 Published Patents in AI / Data Science Systems
- Active involvement in interdisciplinary research and applied AI systems