

Shashikant Chaudhary

Artificial Intelligence · Mathematics · Research · Teaching

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PROFILE

AI and machine learning graduate with postgraduate qualifications in mathematics and computing. Experience in published research, educational AI, reproducible data analysis, university teaching support, and evaluation of AI-generated mathematical reasoning. Combines a strong quantitative foundation with clear communication and practical experience supporting students and university operations.

EDUCATION

Master of Artificial Intelligence & Machine Learning University of Adelaide CGPA: 6.923/7 · Dean's Recognition of Academic Excellence. Relevant areas: statistical machine learning, deep learning, computer vision, and mathematics for data science.	December 2025
Master of Mathematics & Computing Thapar Institute of Engineering and Technology Optimisation, numerical analysis, statistics, and mathematical modelling.	August 2023
B.Tech in Computer Science & Engineering BML Munjal University	July 2020

SELECTED RESEARCH & PROJECTS

Conversational risk analysis — published research Co-authored “Conversational Risk Analysis: Identifying and Classifying Potential Threats in Interpersonal Communication.” Compared machine learning and deep learning approaches across text and audio. Springer · DOI: 10.1007/978-981-96-6254-8_53	2025 · CSCT 2024 proceedings
edTuned — agentic AI for personalised education Capstone and startup exploration of LLM-based learning agents, personalised learning pathways, workflow design, and responsible AI. Engaged with the ThincLab startup ecosystem.	
Student success analysis — OULAD Integrated seven related tables covering 32,593 student records and more than 10 million interaction logs. Built staged Python pipelines with data cleaning, validation, feature engineering, and predictive modelling. Manuscript in preparation.	
GovNav — GovHack 2025 Contributed to Team SPYDER's exploration of AI-assisted government service navigation, community agents, and plain-language regulatory guidance.	
ARBD1 hardware-control library & monitoring dashboard Developed firmware, a Python library, and a monitoring GUI for an Arduino-based educational board, including work on MQTT device-to-dashboard data flow.	

EXPERIENCE

Casual Academic / Teaching Support University of Adelaide / Adelaide University · School of Computer and Mathematical Sciences - Supported MATH 1022 (Mathematics for Machine Learning), MATH 5109 and MATH 5110 (Mathematics for Data Analytics A and B), and ARTI 6000 (Advanced Topics in AI and Machine Learning). - Explained technical concepts, supported student problem solving, coordinated with teaching teams, and contributed to assessment.	2025–2026
Mathematics Specialist — Freelance Outlier AI Reviewed AI-generated mathematical responses for correctness, logical reasoning, and clarity.	From May 2024
Student Services & University Operations University of Adelaide / Adelaide University - Worked across Student Assist, graduation support, health program admissions interviews, Succeed@Adelaide, and the English Language Centre. - Supported student enquiries, orientation, event coordination, confidential records, and communication with academic and professional teams.	2025–2026
Technical Intern Hatchnhack Private Limited Built firmware, Python hardware-control tools, and a sensor-monitoring interface for an educational electronics platform.	January–April 2020

TECHNICAL SKILLS

Programming & data: Python, SQL, NumPy, pandas, SciPy, Jupyter, Git.
AI & machine learning: scikit-learn, XGBoost, PyTorch, TensorFlow, neural networks, LLM-based systems.
Mathematics: linear algebra, calculus, probability, statistics, optimisation.
Communication: teaching support, technical writing, stakeholder communication, cross-cultural student support.

COMMUNITY & LEADERSHIP

Joint Secretary, Thapar Mathematical Society (2022–2023) · Microsoft Learn Student Ambassador (2019–2020) · University student orientation and international student support.