

Sacheen Shrestha

Data Scientist/Analyst | AI/ML Engineer

Sydney, Australia

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Profile

Data Scientist and AI Engineer with 2 years of experience building data-driven solutions that deliver measurable business value. Skilled in developing scalable ML applications, NLP systems, and autonomous trading algorithms, I bridge technical expertise with business acumen to transform data into actionable insights.

Key Achievements & Professional Strengths

- Conducted independent research on stock market prediction using machine learning, accepted at the *KES 2025 Conference*.
- Designed and deployed an autonomous trading bot (NNFX algorithm), achieving **45% strategy precision improvement** over baseline.
- Balanced full-time undergraduate study with professional work as a **Guest Service Agent at PARKROYAL Darling Harbour**, delivering exceptional service in a high-pressure environment.
- Currently building a **startup project in AI-driven job automation**, developing an end-to-end platform for automated resume matching, cold emailing, and progress tracking.
- Enrolled in **MSc in Financial Engineering (WorldQuant University)** to deepen expertise in quantitative finance and data-driven decision-making.

Work Experience

Research Assistant – Data Science & AI | Australian Institute of Higher Education | Feb 2025 – Present | Sydney, Australia

- Conducted statistical analysis and literature reviews for faculty-led projects in data analytics and information systems.
- Cleaned, transformed, and visualized large datasets using Python (pandas, seaborn) and SQL to support academic publications.
- Assisted in the preparation of research papers and presentation materials; contributed to hypothesis framing and data interpretation.
- Collaborated cross-functionally with academic staff and fellow researchers to meet project deadlines and share results clearly.

Guest Service Agent | PARKROYAL Darling Harbour | Oct 2022 – Present | Sydney, Australia

Technical Skills

- **Programming & Analytics:** Python, SQL, Pandas, NumPy, Scikit-Learn
- **Machine Learning & AI:** NLP, Deep Learning, Time Series, Keras, PyTorch
- **Data Engineering & MLOps:** Docker, FastAPI, REST APIs, AWS, GCP
- **Visualization & Reporting:** Power BI, Tableau, Plotly, Matplotlib, Seaborn
- **Other Tools:** Git, GitHub, Linux

Applied Data Science Experience

- **Stock Trend Predictor (KES2025, Published Research):** Developed ML models that simulated a **3x outperformance of market average returns**, showcasing predictive analytics for financial markets.
- **Autonomous Trading Bot (NNFX Algorithm):** Built a real-time trading bot that improved strategy precision by **45%**, demonstrating practical deployment of AI in financial decision-making.
- **Movie Recommender System:** Designed an NLP-powered recommendation engine that improved content relevance and engagement.
- **Text Summarization (NLP):** Fine-tuned DistilBERT into a microservice that cut reading time by **70%**, providing AI-driven efficiency gains for business documentation.

Education and Qualifications

Bachelor of Business Information Systems – Australian Institute of Higher Education (2022–2025)

- Graduated with **Distinction** (WAM: 82.5 | GPA: 6.05/7)
- Capstone: *Applied Machine Learning in Stock Prediction* – accepted for publication at **KES 2025**.

MSc in Financial Engineering - World Quant University (2025-2027)

Certificates

IBM Professional Data Science Certificate