

Kerui Yang

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Analytical, inquisitive student who enjoys solving complex problems and pushing personal boundaries. Interested in Data Science and Analytics and how statistics can guide us to make better, optimal and impactful decisions for the benefit of all.

EDUCATION

University of Sydney

Bachelor of Science, Major in Data Science

Sydney, NSW

Jan. 2023 – Jan 2025

- WAM: 91.5
- Faculty of Science Olympiad Scholarship

James Ruse Agricultural High School

School Prefect

Sydney, NSW

Jan. 2017 – Nov 2022

- ATAR: 99.85
- 9th in NSW Chemistry (2021)

EXPERIENCE

Commonwealth Bank Introduction to Data Science Job Simulation

March 2024

Forage

- Demonstrated proficiency in creating data engineering pipelines to aggregate and extract valuable insights from datasets, optimizing data-driven decision-making.
- Proposed effective data analysis strategies and designed well-structured databases for streamlined information management.

IMC Launchpad Participant

Aug. 2023

IMC Trading

- One of 40 students selected to participate in the 2023 trading accelerator program.
- Developed proficiency in financial data modelling and visualisation using sklearn and matplotlib, and demonstrated skills in deploying a automated virtual market trading bot in Python, placing 8th overall.

PROJECTS

MathWiz | *Python, Git, Huggingface*

Nov 2023

- Technical lead for a team of 5 members, overseeing project architecture design and task assignment for a Genetic Algorithm-based solution to the OpenD/I Hackathon 2023.
- Developed an automated prompt engineering system using LLMs and Genetic Algorithms, winning the “Automatic Prompt Engineering” category

Creating Personalised Twitter Feeds with AI | *Twitter API, Python, Git*

May 2023

- Extracted, cleaned and preprocessed niche tweets using the Twitter API, Tweepy and TF-IDF
- Implemented a data pipeline, and trained 6 classification machine learning models on 9 sets of tweet data
- Designed a hybrid ensemble of Decision Trees, SVMs and Multiple Layer Perceptrons which showcased robustness on imbalanced datasets with an average recall of 58.78%

EXTRACURRICULAR

Academic Events Director

Aug. 2023 – Present

Sydney Uni Data Science Society (SUDATA)

Sydney, Australia

- Led event conceptualisation, organisation, and execution for a club boasting over 500 members.
- Executed vision to enrich student learning by developing peer assisted study sessions and workshops, attended by over 100 students in total.
- Led a team of volunteers in organizing the annual Datathon, attracting over 70 attendees and featuring industry representatives, mentoring sessions, an opening ceremony with guest speakers and judges.

Outreach Director

Aug. 2023 – Present

Sydney University Math Society (SUMS)

Sydney, Australia

- Spearhead outreach initiatives to promote mathematics education and engagement within the community, with Medicine, Engineering and Social Justice societies.

AWARDS

Winner: Challenge 3 - Automated Prompt Engineering Challenge

Nov. 2023

OpenD/I: Shaping Data & Infrastructure Hackathon

Sydney, Australia

2nd Place: COMBINE x BINFSOC x SPDSC Hackathon 2023

Sep. 2023

UNSW

Sydney, Australia

- Used R libraries to analyse spatial, single cell breast cancer tumour data and generated dimensionality reduction plots, performed region analysis
- Discovered relationships between the local and distal cancer tumour recurrence and BasalCKLOW cell types, presenting findings to a panel of judges

Bronze medal - 54th International Olympiad (Chemistry)

Jul. 2022

NANKAI University, China

Canberra, Australia

- One of 4 people representing Australia, and placed 131st in the world
- Demonstrated exceptional problem solving skills and ability to quickly learn difficult knowledge and apply them to complex problems

TECHNICAL SKILLS

Languages: Python, SQL (Postgres), R

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ

Libraries: pandas, NumPy, Pytorch, Matplotlib, scikit-learn, fastai