Jamie Hepburn

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Summary

Senior Data Scientist passionate about building AI that actually works in production. I love turning prototypes into deployed systems, writing clean code with AI assistance, and measuring real impact through rigorous experimentation. Currently focused on multi-agent systems and LLM applications. Excited about applying new techniques and collaborating on products that deploy and continually improve through personalisation, fine-tuning, and iterative development.

Experience

Senior Data Scientist - Generative AI, Quantium – Sydney, NSW   Apr 2025 – present

- Building agentic simulation and evaluation system for customer-facing retail agent with LangGraph. Developing multi-agent framework with synthetic customer interactions and automated testing infrastructure.
- Built on-demand analytics tool for commercial negotiation with AI report generation and frontend. Measured 25% productivity improvement through experimentation framework.
- Led technical development of multi-modal marketing assistant serving 300+ users. Automated brief creation, multimedia content generation, and synthetic audience generation with clean, maintainable code leveraging AI assistance.
- Member of Gen AI Analytics Review Team providing technical guidance, quality assurance, and risk assessment across organisation's Gen AI initiatives.
- 2025 Employee of the Year for technical excellence delivering production Gen AI systems.

Data Scientist - Generative AI, Quantium – Sydney, NSW   Mar 2023 – Mar 2025

- Built first production Gen AI system at Quantium. Deployed hybrid LLM-based classification system processing 2M+ customer comments annually. Now used across multiple teams and business units for ongoing classification, replacing large vendor contract.
- Developed hybrid product matching system combining LLM classification, custom matching algorithm, and GBM for feature importance learning. Achieved 95% competitor coverage and $622K annualised benefit with automated pipeline.
- Built automated refund classification system combining LLMs with rules-based logic to categorise refunds into risk groups. Productionised data feed and analytics dashboard in 4 weeks, saving $400K annually.

Graduate Data Analyst, Quantium – Sydney, NSW   Feb 2022 – Feb 2023

- Developed Python and SQL analytics application for retail space planning optimisation with frontend interface to support range decision making.
- Delivered analytics reviews, investigations, and dashboards across retail forecasting projects.

Education

University of Sydney, Bachelor of Science and Advanced Studies in Physics & Philosophy   2018 – 2021
(Double Major)

- First Class Honours in Astrophysics. Honours thesis: Applied deep learning with TensorFlow to classify galaxy morphology from large-scale astronomical datasets.

Technical Skills

ML/AI: LLMs, Multi-Agent Systems (LangGraph, LangChain), PyTorch, TensorFlow, XGBoost, Model Evaluation (Langfuse)

Data & Cloud: Python, SQL, BigQuery, GCP, Docker, ETL Pipelines, Data Quality Monitoring

Experimentation: A/B Testing, Statistical Analysis, Experimentation Frameworks, Analytics Dashboards

Development: Clean Code Practices, AI-Assisted Development, Frontend (TypeScript), Shell Scripting