

Benjamin Clark

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🏠 Drummoyne, Sydney, NSW

PROJECTS

- FitMate – Anytime Fitness AI Chatbot** | *Python, OpenAI API, Streamlit* Jul. 2025
- Built and deployed a production-ready AI assistant for 500+ Anytime Fitness clubs, providing fast, context-aware gym support.
 - Used Retrieval-Augmented Generation (embeddings + metadata filters) to combine club info, billing, and FAQs for accurate, grounded answers.
 - Developed a Streamlit + React web app embedded in my personal website, hosted via Vercel with custom domain and CI/CD pipeline.
 - Upgraded to OpenAI Responses API for lower latency and enhanced accuracy; designed 1-page pitch deck to demo product to franchisees.
- Predictive Maintenance Dashboard with Vision Pipeline** Mar. 2024 – Dec. 2024
- Developed a multi-stage model pipeline to classify visual sensor data with PyTorch and NumPy; handled edge cases and format reconciliation.
 - Cleaned and analysed industrial datasets using Python and SQL; built Power BI dashboards to present findings to non-technical stakeholders.
- SYNCS Hackathon – People’s Choice Award** | *Python, Docker* Aug. 2024
- Built a Python-Docker prototype to simulate distributed logs and basic anomaly detection in 24 hours.

EDUCATION

- University of Sydney** Sydney, NSW
Bachelor of Computing, Major: Computer Science Jan. 2022 – Nov. 2024
- UNSW Sydney** Sydney, NSW
Bachelor of Commerce, Majors: Finance and Marketing Jan. 2018 – May. 2021
- UNSW Sydney** Sydney, NSW
Higher School Certificate Jan. 2012 – Dec. 2017

TECHNICAL SKILLS

Languages: Python, SQL, Java, Bash, C
Frameworks/Libraries: LangChain, Streamlit, React, scikit-learn, PyTorch
Data/LLM Tools: OpenAI API, Supabase, Postgres, NumPy, Pandas, Vector Stores, RAG
DevOps: Docker, Git, GitHub Actions, pre-commit, VS Code
Concepts: RAG, Data Cleaning, EDA, Statistical Modelling, ML Pipelines, CI/CD, Dashboarding
Soft Skills: Analytical Thinking, Collaboration, Documentation, Initiative, Stakeholder Communication

EXPERIENCE

- Academic Author** Sydney, NSW
Learn Now Publications, Forest Lodge Feb. 2020 – Dec. 2024
- Published 8+ books covering statistics, computing, and finance with emphasis on clarity and reproducibility.
- Academic Tutor** Five Dock, NSW
InFlow Education Aug. 2019 – Jan. 2020
- Tutored Extension 1 Mathematics; created exercises on probability, trends, and logic.