

Jevan Cousins

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PROFILE

ML practitioner with Physics and Mathematics background from UCL. At Allianz Global Investors, I pioneered AI adoption by building a chatbot trained on company data and computer vision modules for document automation, identifying 50+ use cases for agentic AI. Currently developing NutriPlan, an AI-powered nutrition app using GPT-4o, RAG pipelines, and pgvector embeddings.

SKILLS

Languages: Python, SQL, R, C++, MATLAB, Swift

ML/AI: TensorFlow, PyTorch, Scikit-learn, LLMs (GPT-4, Claude), RAG, Computer Vision, NLP, Transformers

Tools: Azure, Databricks, Docker, Git, Jupyter, MLflow, FastAPI, LangChain, pgvector

Certifications: DataCamp Data Science Professional; LIBF Level 6 Diploma in Trading (Distinction)

EXPERIENCE

Allianz Global Investors

Solution Architect

Jun 2022 – Present

London, UK

- Pioneered AI tool adoption including chatbot trained on company data using RAG architecture and computer vision modules for document automation, driving adoption through intuitive UX
- Led agentic AI strategy by educating senior management on GenAI capabilities and identifying 50+ use cases with implementation roadmaps
- Reviewed vendor proposals worth £3M+ for AI agents and GenAI implementations, assessing architecture, model selection, and ROI
- Directed AI training workstream, hosting sessions with industry experts to upskill 200+ senior managers and professionals
- Engineered custom performance attribution models and 20+ reports using Python, SQL and Power BI, saving £25,000 per report
- Led MSCI BarraOne implementation for all global Fixed Income teams, completing project attempted twice over 7 years
- Managed cross-functional team of 9 analysts and external SMEs to deliver BarraOne performance attribution migration
- Automated data reconciliation processes for portfolio management vs custodian data using SQL and VBA, reducing external spend by £200,000+ pa

NF Capital

Head of Fixed Income

Oct 2020 – May 2022

London, UK

- Led team of 3 analysts producing quantitative research reports in Rates, Credit and FX for investment committee
- Developed quantitative frameworks for analysing fixed income market trends and investment opportunities

UCL Innovation Lab

Machine Learning Intern

Jun 2021 – Aug 2021

London, UK

- Developed ML-focused Python exercises applying supervised learning (classification, regression) and unsupervised learning (clustering) to interdisciplinary science problems
- Presented research findings to 200+ professors and peers with explanations tailored to diverse technical backgrounds

Amplify Trading

Summer Intern

Aug 2020

London, UK

- Built algorithmic trading strategy in Python using SMAs that outperformed S&P 500 buy-and-hold by 67%
- Ranked 2nd of 70+ interns with +23.4% annual return in equity portfolio management simulation
- Completed Level 6 Diploma in Trading and Financial Market Analysis with Distinction (LIBF)

EDUCATION

University College London

BSc Natural Sciences (Physics, Mathematics & Statistics) – 2.1

2019 – 2022

London, UK

Brighton, Hove & Sussex Sixth Form College

A-Levels: Mathematics (A*), Further Mathematics (A), Chemistry (A)

2017 – 2019

Hove, UK

PROJECTS & INTERESTS

NutriPlan – AI meal planning app: GPT-4o generation with structured outputs, RAG pipeline using pgvector embeddings for semantic meal retrieval, preference learning from user feedback, UK-standard nutrition calculations (Henry/Oxford equations), household meal coordination (Python, FastAPI, SwiftUI)

Lineup – iOS concert tracking app with automated Python data pipeline aggregating 6 APIs (Ticketmaster, Spotify, Skiddle, Resident Advisor), cross-source artist deduplication using MusicBrainz IDs (Swift, Supabase, PostgreSQL)

Football (UCL 1st XI Captain), Chess (Top 1% globally), Personal Tutor (100% A* success rate)