

CAMERON BELL

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PROFESSIONAL SUMMARY

MSc Computer Science & Business Technology graduate with strong expertise in applied machine learning, MLOps, and data-driven risk modelling. Proven track record delivering production-ready predictive systems (e.g. cost-optimized readmission risk models, hybrid LLM-based risk classifiers) with measurable business impact. Comfortable bridging technical and business domains, from data ingestion and model development to communicating results to stakeholders and optimizing processes. Eager to apply ML, cloud, and analytical skills to underwriting and claims risk modelling in the insurance domain

SKILLS

Programming & Data Engineering: Python (Pandas, NumPy), SQL (PostgreSQL, BigQuery), Data ingestion & ETL pipelines

Machine Learning & Statistical Modelling: Random Forest, Gradient Boosting, Logistic/Linear Regression, Cost-Sensitive Learning, Imbalanced Data Techniques (SMOTE / BorderlineSMOTE), Time-Series Forecasting

Deep Learning / NLP & Generative-AI: PyTorch, TensorFlow, HuggingFace (BERT / RoBERTa), Vector Search, RAG

MLOps / Deployment / Cloud Infrastructure: Docker, FastAPI/REST, CI/CD pipelines, MLflow / W&B, GCP, adaptable to Azure

MAJOR PROJECTS

BHSI Risk Classification System (*Berkshire Hathaway Specialty Insurance*)

APR 2025 – JUL 2025

- Collaborated with BHSI underwriters and led a 6-person university team to architect and deploy a full-stack cloud system (FastAPI + React, GCP) for real-time D&O policy risk scoring, integrating 10+ public legal, financial and market data sources to automate underwriting decisions
- Built a hybrid rule-based + LLM/RAG classifier with embeddings and structured JSON output
- Established full data-ops infrastructure: data ingestion pipelines (scraping + database storage), CI/CD (Docker, GitHub Actions), logging/observability (BigQuery, structured logging), ensuring scalable and reproducible deployment
- Delivered concrete business impact: slashed manual underwriting review and data-ingestion time per case from ~4–6 hours to under 2 minutes (~95% efficiency gain), improving throughput and risk-assessment speed

Healthcare Readmission Risk Model & MLOps Pipeline

APR 2025 – JUN 2025

- Engineered a 9-stage MLOps pipeline (data ingestion → preprocessing → modelling → inference) using MLflow, Hydra, W&B, transforming raw data from 100 K+ patient records (130+ US hospitals) into a production-ready Random Forest model with automated /predict endpoints (Docker + FastAPI) and full versioning / reproducibility
- Managed data-engineering tasks: ICD-9 code mapping, feature selection, missing-value handling, data validation and schema enforcement, data balancing (BorderlineSMOTE) - enabling robust handling of high-volume, noisy clinical data
- Estimated cost-savings of \$15.8M via the model-driven intervention pipeline (~ \$2.39 saved per \$1 invested)

UK Energy Market Time-Series Forecasting & BESS Trading Strategy (Datathon)

OCT 2024 – DEC 2024

- Processed ~118,320 half-hourly observations (~6.75 years) from multi-market energy datasets (Day-Ahead, Intraday, Balancing) and built ARIMA, SARIMAX, Prophet forecasting models, reducing forecast error by 47% versus baseline
- Designed and proposed a trading strategy for Battery Energy Storage Systems (BESS), identifying average market arbitrage opportunities of ~€189/MWh in the Balancing market
- Delivered full reproducible deliverables: data pipelines/notebooks, forecasts outputs (CSV), metric summaries and a concise executive-style deck

EDUCATION

IE SCHOOL OF SCIENCE AND TECHNOLOGY

MADRID, SPAIN

Master's in computer science and business technology

SEP 2024 - JUL 2025

- Leadership: Class Representative, Community Engagement Rep, Tech & Innovation Club Events Officer (2025)
- Modules: Data Analytics for Decision Making, MLOps, Machine Learning & Artificial Intelligence, Cloud Foundations

UNIVERSITY OF BRISTOL

BRISTOL, UNITED KINGDOM

Bachelor of Science, Management

SEP 2017 – JUL 2020

- Modules: Project Management, Consultancy Project, The Digital Economy, Strategic Finance, Marketing

PROFESSIONAL EXPERIENCE

HARGREAVES LANSDOWN (WEALTH MANAGEMENT & FINANCIAL SERVICES)

BRISTOL, UNITED KINGDOM

Financial Advisory Intern

JUN 2022 – JUL 2022

- Streamlined advisory review workflows (ISA, SIPP, funds, shares), improving adviser efficiency and data accuracy