

Guy McCombe

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Professional Summary:

Data scientist specialising in predictive analytics and statistical modelling within the gambling industry. Proven track record of independently building end-to-end data infrastructure and analytical frameworks, from research and design through to implementation and measurement. Having recently brought my sports betting models to maintenance mode, I am looking forward to seeing where next I can apply my knowledge, experience, and skills.

Professional Experience:

- **Quant Data Manager, Amelco.**
November 2025 – Present.
 - * Own end-to-end data pipelines for worldwide basketball quant models serving a whitelabel odds product – API ingestion, web scraping, model fitting and output distribution
 - * Implemented industry-standard alerting and observability functionality
 - * Built an NLP extraction pipeline to turn unstructured sports news into player availability signals, with identities reconciled across internal systems and third-party feeds
- **Data Scientist & Sports Bettor, Self-employed.**
July 2023 – November 2025.
 - * Built end-to-end data pipelines for ingesting, cleaning, and storing football and tennis data streams to support my predictive machine learning models.
 - * Implemented time series analysis for player and team strength modelling, successfully predicting performance trajectories across cash-prize fantasy football tournaments.
 - * Designed and deployed automated backtesting frameworks with rigorous statistical validation and hypothesis testing, evaluating predictive strategies against historical market odds
- **Data Scientist, Rvvup (payments startup).**
December 2021 – July 2023.
 - * Led design and implementation of production data pipelines using Dagster, dbt, and Airbyte, taking projects from initial research through to deployment.
 - * Built and maintained SQL dashboards for real-time KPI tracking and operational metrics.
 - * Engineered NLP workflows to personalise sales at scale.

Education:

- **MEng, Computer Science, First-Class Honours & Outstanding Achievement Prize**
Durham University, 2021.
Thesis: Tennis Prediction with Segmented Elo and Neural Networks

Skills:

- *Python & ML:* NumPy, Pandas, Polars, PyTorch, XGBoost, scikit-learn, transformers, et al.
- *Data Engineering:* Dagster, dbt, Airbyte, SQL, web scraping
- *Databases & BI:* PostgreSQL, Clickhouse, DuckDB, Metabase, Datawrapper, Flourish

Interests:

Football crazy, football mad – season ticket holder at Man United Women and regularly sharing analytics and visualisations about the WSL and its fantasy football game on twitter. Outside of sports, I'm a captain at my local chess club and a perennial bottom-half finisher at our ypub quiz.