

Enkh-Amgalan Enkhbayar

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Summary

Data Scientist with industry experience delivering forecasting, recommendation, data engineering, and analytical solutions for business clients. First-Class Honours Artificial Intelligence graduate skilled in Python, SQL, pandas, scikit-learn, predictive modelling, NLP, semantic search, optimization, Streamlit applications, Databases, Microsoft Fabric, and data warehouse design.

Experience

Junior Data Scientist, PowerServe Global - London May 2025 – Present

- Developed forecasting models, recommendation systems, transformation pipelines, and analytical prototypes and agents for business clients.
- Built data wrangling, cleaning, preprocessing, validation, and transformation components for the company's own product.
- Prepared business-focused outputs, visual demonstrations, and prototype applications to communicate technical results clearly to clients and supervisors.

Team Supervisor, Osaka - High Wycombe Jun 2024 – Jun 2026

- Led a team of 15 staff members, improving task efficiency and reducing operational errors by 25% through clearer workflow coordination.
- Managed rotas, stock control, production planning, workload distribution, and daily operational issue resolution.

Education

Buckinghamshire New University, BSc (Hons) Artificial Intelligence Sep 2021 – Jun 2025

- First Class Honours, Overall Mark: 84%
- Relevant modules: Data Science, Database Technologies, Machine Learning, Knowledge-Based Systems, Algorithms and Data Structures, Database Design

Projects

Automated Schema Discovery and Data Warehouse Redesign Pipeline 2025 – Present

- Built a data engineering pipeline that profiles raw table datasets and redesigns them into cleaner analytical database structures for Fabric SQL.
- Implemented automatic schema discovery logic to identify candidate keys, relationship evidence, value overlaps, and normalisation opportunities across unfamiliar datasets.
- Developed automatic decomposition and schema design stages to generate dimension/lookup tables, ERD visuals, transformed outputs, and SQL creation scripts.
- Used Python, pandas, DuckDB, Graphviz, and LLM-assisted semantic processing to support profiling, schema interpretation, and warehouse redesign decisions.

Forecasting and Recommendation Platform for a Plumbing Merchant 2025

- Developed retail intelligence models using historical sales, customer behaviour, product, pricing, invoice, and discount data.
- Built recommendation workflows covering popularity-based, item co-occurrence, hybrid, and GRU-based sequential recommendations.
- Created product-level demand forecasting pipelines using Prophet with price, discount, seasonality, and holiday-based features.
- Evaluated forecasting performance with MAPE, SMAPE, and WAPE, and demonstrated outputs through an interactive Streamlit prototype.

Receipt: Student Grocery Price Comparison and Smart Shopping Assistant 2024 – 2025

- Developed a full-stack data science web application on Streamlit for grocery price comparison, shopping list generation, and student budget support.
- Built Selenium web scraping and preprocessing pipelines to collect, clean, standardise, and analyse supermarket product prices, discounts, categories, and dates.
- Implemented semantic product matching using embeddings and similarity search to match typed, spoken, and AI-generated grocery inputs to real products.
- Integrated Supabase authentication/storage, Streamlit UI, geolocation-based store recommendation, saved lists, LLM-assisted suggestions, and price trend analysis.

Skills

Programming & Analysis: Python, SQL, pandas, NumPy, data cleaning, data wrangling, EDA, feature engineering
Machine Learning & AI: scikit-learn, regression, classification, clustering, forecasting, recommendation systems, NLP, semantic search, embeddings, LLM integration, agents

Data Engineering & Databases: preprocessing pipelines, validation, normalisation, relational databases, graph databases, data modelling, warehouse design, REST APIs

Tools & Frameworks: Git, GitHub, Jupyter Notebook, VS Code, Streamlit, FastAPI, Supabase, DuckDB, Microsoft Fabric, Graphviz