# RAHUL AGRAWAL

Data Analyst

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LinkedIn | GitHub | Portfolio | Kaggle

## Profile

Data analyst experienced in finance and e-commerce reporting using Python, SQL, Excel, Power BI and Tableau. Currently pursuing an MSc in Artificial Intelligence and Data Science at St Mary's University, London. Project experience covers statistical analysis, machine learning and AI applications.

## Technical Skills

**Data analysis:** Python (pandas, NumPy), SQL (Microsoft SQL Server, MySQL, SQLite), data cleaning, validation, exploratory analysis, and ETL.

**Reporting:** Power BI, Tableau, Excel (pivot tables, VLOOKUP), interactive dashboards.

**Machine learning and AI:** Random Forest, RAG, FAISS, vector embeddings, Gemini API and SQL tool-calling.

**Development:** Flask, Streamlit, Git and GitHub; documentation and user support.

## Professional Experience

### Junior Data Analyst | A1 IT Innovation, Damak, Nepal

September 2025 - August 2026

- Analysed finance and e-commerce datasets with Python and SQL to prepare client reports.
- Built Power BI dashboards and developed SQL queries for finance and e-commerce reporting.
- Worked with colleagues to clarify business requirements and develop reporting tools.
- Documented report metrics, sources and filters; delivered dashboard walkthroughs and supported users with reporting and data issues.

### Data Analyst Intern | A1 IT Innovation, Damak, Nepal

December 2024 - June 2025

- Analysed operational data in Excel and Tableau and maintained performance dashboards and periodic reports.
- Assisted SQL and SSIS ETL processes to prepare clean, reliable data for analysis.

### Data Analyst Intern | Cubical Technologies, Itahari, Nepal

December 2023 - March 2024

- Used Python and SQL to streamline data collection and cleaning and improve dataset consistency.
- Built Power BI dashboards to visualise healthcare and industrial trends.

## Selected Projects

**Global Terrorism Trends Analysis**

Python, pandas, matplotlib, Power BI | GitHub

- Analysed more than 111,000 recorded incidents from 2000 to 2017, examining regional trends, incident-casualty correlation and attack methods.
- Built an interactive Power BI dashboard with connected maps, trend charts, scatter plots and slicers alongside the Python analysis; identified the 2014 incident peak and regional differences.

**Footwear Sales Analysis**

Python, pandas, SQL, SQLite | GitHub

- Investigated brand performance, discounting, sales channels and time trends; cross-checked pandas findings using SQL CTEs, window functions and conditional aggregation.
- Identified unusually uniform patterns across multiple dimensions as evidence of synthetic data, documenting limits on using the findings for business decisions.

**Ecommerce AI Assistant**

Python, DuckDB, Streamlit, Gemini, FAISS | GitHub

- Built a hybrid analytics assistant combining SQL tool-calling for business metrics with semantic search over more than 40,000 customer reviews.
- Used local embeddings and MMR retrieval to reduce redundant review evidence; added visible sources and grounding rules to mitigate unsupported AI claims, checked manually against retrieved evidence.

**Crop Recommendation System**

Python, Random Forest, Flask, REST API | GitHub

- Built a crop recommendation application using a trained Random Forest model and soil and environmental inputs, including nutrients, pH and rainfall.
- Exposed model predictions through a Flask REST API and a browser interface for entering inputs and viewing recommendations.

## Education

**MSc Artificial Intelligence and Data Science**

St Mary's University, Twickenham, London | September 2026 - Present

Relevant modules: Data Analysis and Visualisation, Database Systems, Machine Learning.

**Bachelor of Computer Application**

Tribhuvan University, Nepal | Completed 2024 | GPA 3.62/4.0

Relevant modules: Data Analysis and Visualisation, Statistics, Financial Accounting.

## Leadership

**First President of the BCA Association**

Mahendra Morang Adarsha Multiple Campus, Nepal. Organised a Python workshop and supported the student computing community.