

Ali Ibtisam

Data Science Undergraduate | Machine Learning | SQL | Business Intelligence

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Professional Summary

Data Science undergraduate skilled in Python, SQL, and machine learning, with three deployed projects spanning LLM-powered business intelligence, explainable churn prediction (XGBoost, SHAP), and a live student marketplace. Experienced across the full data science pipeline: data cleaning, EDA, feature engineering, model training and evaluation, and translating results into stakeholder-ready insights.

Technical Skills

Programming: Python, SQL
Data Analysis: Pandas, NumPy, EDA, Statistical Analysis, Statistical Inference
Machine Learning: Scikit-Learn, XGBoost, Regression, Classification, Random Forest, Feature Engineering, Cross-Validation, SHAP / Model Explainability, Predictive Modeling, A/B Testing
Visualization & BI: Matplotlib, Seaborn, Plotly, Power BI, Tableau, Excel
Generative AI: LLM Applications, LangChain, Prompt Engineering, Groq
Databases & Tools: PostgreSQL, MySQL, SQLite, Git, GitHub, Jupyter Notebook, Streamlit, API Integration

Projects

- DataPilot AI — Universal AI Business Intelligence Command Center** | [Live App](#) & [Code](#) 2026
- Built an LLM-powered business intelligence tool that converts natural language into dialect-aware SQL across PostgreSQL, MySQL, and SQLite using LangChain and Groq.
 - Engineered enterprise-grade security guardrails with an AST-based SQL parser, blocking 34/34 tested SQL-injection attack vectors and passing 100/100 automated unit and security tests.
 - Optimized for performance: sub-50ms cached query latency, 2.1s cold end-to-end latency, and under 190ms schema discovery on arbitrary databases.
 - Developed automated KPI discovery and executive-briefing generation with interactive Plotly dashboards, benchmarked across 4 business domains (e-commerce, SaaS CRM, healthcare, supply chain).
- Customer Churn Prediction & Explainability Dashboard** | [Code](#) & [Live App](#) 2026
- Built an end-to-end churn prediction pipeline on 7,043 telecom customer records, including one-hot encoding, feature scaling, and stratified oversampling to correct a 73/27 class imbalance.
 - Trained and benchmarked Logistic Regression, Random Forest, and XGBoost classifiers using 3-fold cross-validation, with XGBoost achieving the best results (ROC-AUC 0.88, F1 0.65, Recall 0.78).
 - Implemented global and local model explainability with SHAP (beeswarm plots, waterfall charts, plain-English churn drivers) to make predictions interpretable for non-technical stakeholders.
 - Deployed a 5-page interactive Streamlit dashboard featuring live churn scoring, model comparison, and EDA visualizations.
- AIU Market — Centralized Student Marketplace** | [Live Platform](#) Aug 2026
- Co-built a centralized marketplace exclusively for AIU students with a 3-person team, enabling students to buy and sell within a trusted campus-only platform.
 - Owned the frontend, building the UI in Next.js with a Supabase/PostgreSQL backend.
 - Tracked early user and listing growth post-launch, reaching 70+ registered users and 25+ active listings within the first days of going live, with a target of 1,500+ students onboarded.

Experience

- Campus Ambassador** – GeeksforGeeks Remote
Student Community & Growth Lead Jan 2026 – Jun 2026
- Recruited and onboarded 60+ students within 3 months, exceeding regional targets by 20% through data-driven outreach campaigns and peer-to-peer engagement strategies.
 - Analyzed weekly platform engagement metrics to optimize content strategy for data science challenges and coding contests, contributing to a 35% increase in weekly active users.
 - Facilitated 3+ technical sessions on data science career pathways and Python/ML fundamentals to 40+ attendees, achieving 85% positive feedback.

Education

- Albukhary International University (AIU)** Malaysia
Bachelor of Data Science (Honours) – CGPA: 3.84/4.0 (Fully Funded Scholarship) Oct 2025 – Expected 2028
- Coursework:** Data Science Fundamentals, Python Programming, Probability & Statistics.

Certifications

- [Python Data Associate – DataCamp](#)
- [Armenia LLM Summer School – Nebius AI](#)

Achievements & Languages

- Achievements:** [2nd Place, FAST Problem Solving Challenge](#) (Oct 2023)
Languages: English (Full Professional), Urdu (Native), German (Elementary)