

# Akram Mohammed

Business Analytics Graduate Candidate | Data-Driven Problem Solver

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Master's candidate in Business Analytics at Cal State East Bay with hands-on expertise in Python (pandas, NumPy, scikit-learn) and SQL (CTEs, Window Functions, Stored Procedures) for data transformation, predictive modelling, and ETL. Skilled in automating Excel dashboards (VLOOKUP, Pivot Tables, Macros) and building interactive Tableau visualizations. I align technical attention with business strategy to improve KPIs, and drive revenue. Seeking a Data Analyst/Business Analyst roles to apply my technical skills in a data-driven environment.

## EDUCATION

CALIFORNIA STATE UNIVERSITY, EAST BAY (Hayward, CA)  
Master of Science, Business Analytics | Expected Graduation: Spring 2025

SWANSEA UNIVERSITY (Swansea, Wales, UK)  
Bachelor of Science, Economics | Graduated 2018

## SKILLS

- Technical: Python (pandas, NumPy, scikit-learn), R, SQL (complex queries, CTEs, Window Functions, Stored Procedures, ETL), Excel (VLOOKUP, Pivot Tables, Macros), Tableau, Power BI, Data Visualization, Predictive Modelling, Machine Learning
- Analytical: Data Analysis, Financial Modelling, Statistical Analysis, KPI Design, Business Intelligence
- Soft Skills: Communication, Cross-Team Collaboration, Problem-Solving, Presentation, Agile Adaptability, Stakeholder Management.

## WORK EXPERIENCE

Accessibility Centre – California State University East Bay | *Tutor* (Jan 2024 – May 2024)

- Increased academic performance for 85% of assigned learners by designing data-driven strategies tailored to students with learning disabilities.
- Led weekly cross-functional meetings with faculty and administrators, presenting data insights that optimized tutoring resources and improved underperformance rates by 25%.
- Built Excel-based dashboards (using VLOOKUP, Pivot Tables, and macros) to track weekly student progress, enabling quick course-correction and real-time decision-making.

Federal Inland Revenue Service – Lagos, Nigeria | *Tax Data Analyst* (Oct 2020 – 2023)

- Created a revenue forecasting model using SQL queries and Excel analytics that improved prediction accuracy by 10%, resulting in a \$100,000 increase in tax payments.
- Automated monthly data ingestion processes by building ETL pipelines with SQL, reducing data processing time by 30% and improving reporting consistency.
- Developed interactive Tableau dashboards for leadership, translating complex tax datasets into easily digestible insights and facilitating data-driven policymaking.

## PROJECTS

*Airline Passenger Forecasting* • Developed an ARIMA-based forecasting model in R, achieving high predictive accuracy (MAPE: 1%, RMSE: 0.0662). • Conducted time series decomposition and implemented Holt-Winters exponential smoothing to validate forecast reliability.

*Big Data Weather Analytics* • Processed large-scale NCDC weather data using Hadoop MapReduce and PySpark for scalable analytics. • Built mrjob and PySpark scripts to calculate visibility range and median wind direction, demonstrating proficiency in distributed data processing.