

LINA AL-ZUBAIR

Junior Data Analyst & Researcher
Birmingham, UK (Dutch Citizen - Relocating Immediately)
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PROFILE

BSc Computer Science graduate and Dutch citizen with specialized experience in urban data analysis and predictive modelling. Certified Google Data Analytics Professional with a strong background in handling high-volume sensitive data (GDPR compliant) for law enforcement. Proficient in Python (Pandas, TensorFlow), SQL, and Excel for data cleaning and reporting. Successfully developed machine learning models achieving 92% accuracy in traffic forecasting. Seeking an immediate start in Data Analysis or Operational Support in the Netherlands.

TECHNICAL SKILLS

Data Analysis: Python (Pandas, NumPy, Scikit-learn), SQL (Querying), Excel (Pivot Tables).

Machine Learning: Predictive Modelling, Time-Series Analysis, Feature Engineering (TensorFlow).

Visualization: Tableau, PowerBI, Matplotlib.

Administration: GDPR Compliance, Data Validation, Crisis Reporting, High-Volume Data Entry.

Languages: English (Native), Dutch (Basic).

EXPERIENCE

Independent Researcher | Happy City Hub (Remote)

Dec 2025 – Present

Specialized in urban data collection for the municipality of Zoetermeer, Netherlands.

- Conducted structured data collection on urban indicators, ensuring data integrity for municipal reporting.
- Validated and cleaned large datasets using Excel, identifying inconsistencies to improve accuracy for international stakeholders.
- Collaborated remotely to standardize data formats for cross-border reporting systems.

Force Contact Officer | West Midlands Police (UK)

Aug 2024 – Sep 2024

Processed high-volume sensitive data under extreme time pressure.

- Managed confidential incident data with 100% accuracy, strictly adhering to GDPR and data protection laws.
- Generated real-time situational reports to support operational decision-making in crisis scenarios.
- Triaged complex information streams to prioritize resources effectively based on data-driven risk assessment.

KEY DATA PROJECTS

Predicting Urban Traffic Congestion (Final Year Project) | Python, TensorFlow

- Developed predictive models achieving **92% accuracy** in forecasting traffic congestion from 17,500+ hours of sensor data.
- Engineered complex datasets through time-series pre-processing and statistical analysis of traffic patterns and weather correlations.
- Implemented three ML algorithms (Random Forest, SVM, LSTM) using rigorous cross-validation.
- Generated actionable insights to propose traffic management strategies with a potential **15% journey time reduction**.

Transportation Pattern Analysis Using Big Data | Python, SQL, Excel

- Analysed millions of transportation records to identify peak usage times and regional mobility anomalies.
- Performed large-scale ETL operations (cleaning, transformation, aggregation) to prepare datasets for statistical analysis.
- Created interactive dashboards to visualize findings and communicate recommendations to urban planning stakeholders.

EDUCATION & CERTIFICATION

Google Data Analytics Professional Certificate | Coursera | Sep 2025 - Nov 2025

Completed rigorous training in data cleaning, analysis, and visualization (SQL, R, Tableau).

BSc Computer Science (2:2) | Coventry University, UK | Sep 2022 – Sep 2025

Relevant Modules: Big Data Analytics, Machine Learning, Database Systems.