

MOHAMMAD ASGHAR

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PROFESSIONAL SUMMARY

Data Analyst with dual MSc qualifications (Distinction) in Data Science & AI and Mechanical Engineering, delivering end-to-end analytics across product, audit, cloud, and operations. Skilled in SQL, Python (pandas), Power BI, and Looker Studio — building dashboards, engineering automated data-quality frameworks, and building AI agents that automate analysis and reporting. Also experienced in financial data reconciliation and regulatory workflows.

EDUCATION

Queen Mary University of London <i>MSc Data Science and Artificial Intelligence</i> Grade Obtained: Distinction	September 2023-24
University College London <i>MSc Mechanical Engineering</i> Grade Obtained: Distinction	September 2020-21
Queen Mary University of London, BEng Mechanical Engineering with Honours Grade Obtained: First Class Honours	September 2017-20

WORK EXPERIENCE

Hazel Mobile, Lahore, Pakistan <i>Data Analyst, Full time</i>	June 2026 – Present
- Identified missing data the product wasn't capturing and worked with engineering to add new telemetry fields in a fresh app release — unlocking analysis of <i>why</i> VPN connections fail (e.g. network blocking in restricted markets) that the earlier data couldn't support — and tracked data quality and user behaviour across app versions. - Built a 15-check automated data-quality framework on VPN telemetry (Python/pandas) — spanning row-level validity, behavioural (inactivity churn, bot-burst) and user-journey (flap, activation, next-day return) checks — that reclassifies mislabelled "successful" sessions so drops in success rate can be decomposed by failure reason. - Built an autonomous AI Data Analyst Agent (Python, LangGraph, local + cloud LLM) that auto-generates two colour-coded reports on a schedule via n8n and answers free-form questions by writing its own validated read-only SQL from a 22 metric semantic layer — with results always explained locally so no telemetry leaves the machine. - Built interactive Looker Studio dashboards across acquisition, retention, revenue and quality metrics for six apps, with calculated fields (conversion %, ARPU, DAU/MAU) to surface user friction.	
Dynamic Packaging (Pvt) Ltd, Lahore, Pakistan <i>Procurement & Planning Analyst, Full time</i>	August 2025 – June 2026
- Built Power BI and Excel reporting dashboards across 5 departments to track 2M kg of customer orders, 24 substrate variants, supplier POs, and stock levels — supporting demand forecasting, inventory scenario modelling, and credit control KPI definition with department heads. - Performed a structured data audit of 5 departmental stores, classifying 250+ assets using a green/yellow/red triage framework — reducing machine downtime by 15 breakdowns monthly and informing scrap and repair investment decisions through risk-based prioritisation. - Developed a Google Drive-based breakdown logging system to link operational data across teams; trained 9 department heads in Excel reporting and basic data analysis through biweekly sessions.	
BDO LLP, Manchester, UK <i>Technology Risk Assurance (TRA) Audit Trainee, Full time</i>	September 2024 – June 2025
- Gained exposure to financial reporting standards including IFRS and regulatory compliance requirements; supported technology risk audits across financial services clients, with a focus on data integrity, internal controls, and regulatory reporting obligations. - Collaborated with clients to extract and analyse large financial datasets — including balance sheet items, revenue figures, and risk-related metrics — ensuring data accuracy and compliance for audit processes. - Leveraged Microsoft Azure to upload and manage large datasets in Databricks, and utilised SQL and Python to perform reconciliation, recalculation, and data processing tasks across financial datasets. - Conducted two-way and three-way matching of revenue data, general ledger entries, and CRM data files to detect duplicates, null values, and outliers — supporting regulatory compliance and ensuring data integrity across financial reporting workflows. - Designed and generated detailed Excel reports summarising reconciliation results with advanced statistical analysis, providing actionable insights into discrepancies and data quality issues for senior audit team review.	
Infosys Ltd, London, UK <i>Data and AI InStep Intern, Internship</i>	June 2024 – August 2024
- Developed an automated ETL pipeline using Google Cloud Composer and Apache Airflow, processing 16,600 records through end-to-end data ingestion, preprocessing, transformation, and BigQuery loading — leveraging a video games sales dataset to implement a complete data warehousing workflow. - Applied data cleaning and quality assurance techniques, including deduplication, type casting, schema validation, and format correction, ensuring clean and reliable datasets for structured analytical reporting.	

- Addressed data modelling and performance challenges in BigQuery by designing JSON schemas and SQL summary tables, optimising query performance and supporting structured analytical reporting.
- Resolved Python library import and dependency issues by developing scripts in Google Cloud Shell, uploading them to Google Cloud Storage, and executing them through Apache Airflow with custom test scripts for module versioning and error handling.

Enactus QMUL Society, London, UK

September 2023 – June 2024

Vice President of Engagement, University Society

- Lead the MediCycle and Nourish Nest Projects, focusing on pharmaceutical recycling and childhood obesity.
- Obtained funding from British Airways to support the MediCycle Project.
- Delivered an Employability Skills Workshop, emphasizing interview techniques using the STAR technique.
- Recognised among the top 5 Vice Presidents of Engagement across 65 UK universities.

Prime Tuition Ltd, London, UK

June 2023 – September 2023

Mathematics Teacher, Full time

- Taught advanced mathematics to 50+ students of year 3 to GCSE level, resulting in a 20% improvement in grades.
- Led group sessions with up to 5 students, producing progress reports, resulting in a 15% rise in parental satisfaction.

Converge Octagon I/O Ltd, London, UK

June 2022 – June 2023

Reality Capture (Systems) Intern, Internship

- Defined technical and business requirements for IoT temperature sensors across teams, driving end-to-end product development from prototyping through EVT, DVT, and PVT validation phases to mass production of 2,000+ units.
- Assisted in mapping IoT sensor data flows and contributed to data modelling discussions to support downstream analytics; facilitated mobile app A/B testing and UAT workshops to validate offline data sync, geolocation tracking, and real-time signal feedback features — boosting app adoption and retention by 20%.
- Analysed IoT sensor datasets spanning 30+ sensors and 2,160+ rows per sensor/month using Excel and logz.io, identifying data gaps, inconsistent sampling rates, and erroneous readings through trend analysis and anomaly detection.

PROJECTS

- **Customer Shopping Behaviour Data Analytics Project (June 2025 – July 2025):** Developed an end-to-end analytics pipeline using Python, PostgreSQL, and Power BI to analyse customer purchasing behaviour and generate business insights. Collaborated with stakeholders to define KPIs and reporting requirements; performed data cleaning, feature engineering, and EDA, and implemented advanced SQL queries (CTEs, window functions) for customer segmentation, trend analysis, and revenue forecasting. Built an interactive dashboard from ~3,900 transactions and delivered insights through a structured report and presentation; deployed project to GitHub.
- **Bridge Condition Analysis Project, QMUL (Sept 2023 – Oct 2023):** Result: **Distinction (Achieved)**. Conducted Exploratory Data Analysis (EDA) on 34,000+ Texas bridges using Pandas, identifying critical predictors like bridge age, daily usage, truck traffic percentage, material, and design. Developed linear regression models achieving R^2 values up to 44.8%, reducing prediction errors by ~90%. Enabled prioritization of repairs for over 400 high-risk bridges and provided strategic recommendations for improved bridge maintenance.

AWARDS AND CERTIFICATIONS

- **AI & Machine Learning for Beginners – LUMS CES;** (Apr 2026 – May 2026) | AI/ML Foundations, Neural Networks, Transformers, Prompt Engineering, AI Ethics, and AI Product Ideation. Completed hands-on exercises in Python/Google Colab covering data cleaning, train/test split, classification, clustering, and confusion matrix analysis.
- **Fundamentals of Data Analytics – LUMS, CES;** (Feb 2026 – April 2026) | Excel (Power Query) for data cleaning and dashboarding, SQL (joins, DDL/DML) for querying, and Power BI for data visualisation and KPI reporting.
- **Data Science & Machine Learning using Python – LUMS, CES;** (Nov 2025 – Jan 2026) | Supervised & Unsupervised Machine Learning, EDA, Feature Engineering, Model Evaluation.
- **Data Analysis Virtual Internship – Victoria Solutions Consulting Group, London,** (July 2025 – August 2025) | Retail sales analytics using Excel (XLOOKUP, FILTER), SQL, Python, Pandas, and Power BI, covering data cleaning, EDA, regression, clustering, churn prediction, dashboarding, KPI reporting, and business recommendations.

TECHNICAL SKILLS AND LANGUAGES

- **Data & Analytics:** Python, Pandas, Matplotlib, SQL, Power BI, Tableau, Excel, Power Query, Pivot Tables, ETL processes, data modelling, data warehousing
- **Financial & Compliance:** Financial dataset analysis, reconciliation, regulatory reporting (IFRS exposure), balance sheet data, risk metrics, compliance workflows
- **Machine Learning & AI:** Neural networks, Transformers, Prompt engineering, AI product ideation, AI Ethics
- **Data Operations:** Data validation, ingestion, anomaly detection, transformation, quality assurance, deduplication
- **Cloud & Platforms:** Google Cloud Platform (GCP), Microsoft Azure, Databricks, BigQuery, Apache Airflow, GitHub
- **Languages:** English (native proficiency), Urdu (native proficiency), Punjabi (limited working proficiency)