

Muhammad Azlan Khan (Data Analyst)

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SUMMARY

Data Analyst with 4+ years of experience specializing in turning raw data into actionable insights leveraging **advanced statistical analysis** using **Python, R, and SQL**, with a track record of tangible impact, including **reducing operational costs by 20%** through optimized forecasting and **increasing customer retention by 15-20%**. Proficient in data preprocessing, **data visualization**, and **business intelligence** via **Tableau** dashboards to drive strategic decisions.

EDUCATION

Bachelor of Science in Computer Science, Ghulam Ishaq Khan Institute of Engineering Science Topi, KPK

Major: Data Science.

Relevant Coursework:

Data Structure and Algorithms, Introduction to Artificial Intelligence, Introduction to Databases, Theory of Data Science, Inferential Statistics to Applied Probability, Data Warehousing, Data Mining, Data Visualization, Data Engineering, DevOps.

WORK EXPERIENCE

JMM TECHNOLOGIES – Data Analyst

Jan 2023 – Sep 2025

Riyadh, KSA

- **Led client retention initiative**, improving client retention by 20% via data-driven segmentation models and customer behavior insights.
- Implemented scalable backend data services using Python (FastAPI/Django) and SQL, improving data API response time by **45%** and ensuring robust data access for analytics applications.
- Engineered and centralized high-impact reporting dashboards in Power BI and advanced Python, streamlining business intelligence delivery and improving reporting efficiency by **60%**.
- Implemented **CI/CD pipelines** and containerized microservices using Docker, enabling rapid, reliable deployment of data features and full-stack solutions.
- Designed and executed A/B testing frameworks for marketing campaigns, performing rigorous model evaluation that directly contributed to an **18% increase** in overall campaign ROI.

SYSTEMS LIMITED – DevOps Engineer

Jan 2022 – Dec 2022

Lahore, Pakistan

- Architected and deployed **15+ automated CI/CD pipelines** using Azure DevOps, specifically tailored for ML model deployment and data reporting services, reducing end-to-end deployment time by 65%.
- Orchestrated containerized Data Science applications with Docker and Kubernetes, enabling high-availability environments for production-grade predictive models, improving system scalability by **40%**.
- Streamlined cloud infrastructure provisioning for scalable analytics environments using Terraform, decreasing environment setup time for new data projects from **6 hours to 45 minutes**.

OIL AND GAS DEVELOPMENT COMPANY LIMITED – Data Analyst

Jan 2021 – Dec 2021

Islamabad, Pakistan

- Built and validated predictive machine learning models to optimize drilling operations, achieving a robust 92% accuracy and contributing to a modeled **25% reduction** in operational risk in the oil and gas sector.
- Conducted deep-dive Exploratory Data Analysis (EDA) on large operational datasets, identifying key trends in oil production and discovering cost-saving opportunities valued at over **3M Pakistani Rupees**.
- Analyzed operational datasets to uncover performance trends and patterns, enhancing overall efficiency across various field operations.
- Executed comprehensive data cleaning and processing routines on terabyte-scale operational data, improving data readiness for advanced analytics by **40%**.

PROJECTS

SAUDI GROUND SERVICES APP - ACCESSIBILITY MOBILE APPLICATION

- Engineered an MVP mobile app to assist people with disabilities at Saudi airports using AR navigation, voice commands, and **AI-based support**.
- Focused on accessibility features including text-to-speech, location tracking, and multi-language support for inclusive user experience.
- Conducted usability testing and optimized app for iOS and Android platforms using **Flutter and Firebase**.

DEVOPS PROJECT – AUTOMATED FULLY ENGINEERED DATA PIPELINE

- Enhanced data pipeline performance by optimizing Spark configurations and tuning data partitioning strategies; this resulted in increased processing capacity by 20% without additional infrastructure.
- Applied scalable data architecture principles (utilizing Kubernetes and Docker) to manage **high-volume datasets**, optimizing the foundation for advanced data analysis and predictive modeling.
- Monitored **data quality and integrity in real-time**, focusing on ingestion and processing streams, which directly supported the reliability of business intelligence dashboards and analytical projects.

GOVERNMENT OF KPK– DATA REVOLUTION PROJECT

- Digitized and standardized **100,000+** educational records, boosting data accuracy from **73% to 98%**.
- Generated **25+ analytical reports** that informed policy decisions for **500+ schools**.
- Introduced data quality protocols that cut processing errors by **85%**.

SMART PREP – A MACHINE LEARNING ASSISTANT

- Built a full-stack web application using Streamlit (Python), Scikit-learn and pandas to automate the entire ML workflow by reducing model experimentation time by 40%.
- Designed intelligent preprocessing pipelines and model recommendation logic improving model selection efficiency by **30%** and processing data sets up to **50,000 rows**.

SKILLS

- **PROGRAMMING & ANALYTICS:**
- *Python, SQL, R, C/C++, NumPy, Pandas, Statistical Analysis, SPSS, SAS, and Advanced Excel.*
- **MACHINE LEARNING & AI:**
- *Machine Learning, Deep Learning, Computer Vision, YOLO Models, OpenCV, Canny Edge Detectors, and Image Transformation.*
- **VISUALIZATION & BI:**
- *Power BI, Tableau, Data Visualization, Document Controller, and Adobe Forms.*
- **DEVOPS & INFRASTRUCTURE:**
- *Docker, Kubernetes, Git, GitHub, DevOps, MLOps, Ansible, Terraform, and Azure.*
- **DATA ENGINEERING:**
- *Data Engineering, Apache Spark, Hadoop, Data Migration, ETL, and Data Pipelines.*
- **SAP & ENTERPRISE:**
- *SAP Workflows, BAPI, CDS Views, RFC, BDC, DDIC, Project Management, PLC, and HMI.*

LANGUAGES

- English (Fluent), Urdu (Native), Arabic (Basic/Conversational)

CERTIFICATIONS

- Visualization for Data Analysis with Power BI - **Microsoft**
- Data Visualization Fundamentals - **Microsoft**
- Introduction to R Programming for Data Science - **IBM**
- Introduction to Machine Learning - **Duke University**
- Azure Infrastructure Fundamentals - **LearnQuest**
- AI For Everyone - **DeepLearning.AI**
- Introduction to Hardware and Operating Systems- **IBM**