

Muhammad Azlan Khan

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EDUCATION

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

Major: Data Science.

September 2021 – June 2025

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 – Riyadh KSA Data Analyst

January 2024 – Present

- Develop **automated dashboards** using Power BI and Python, improving reporting efficiency by **60%**.
- Analyze customer data from multiple channels, providing insights that have led to a **20%** improvement in client retention.
- Conduct **A/B testing and model** evaluation for marketing campaigns, increasing ROI by **18%**.

SYSTEMS LIMITED – DevOps Engineer

June 2024 – August 2024

- **Architected and deployed** 15+ automated CI/CD pipelines using Azure DevOps, reducing deployment time by **65%**.
- Orchestrated containerized applications with Docker and Kubernetes, improving system scalability by **40%**.
- Streamlined cloud infrastructure provisioning using **Terraform**, decreasing setup time from **6 hours to 45 minutes**.

JMM TECHNOLOGIES – Riyadh KSA Software Engineer

January 2023 – December 2023

- Built and maintained scalable backend services in Python and FastAPI, improving API **response time by 45%**.
- Collaborated with front-end teams to **integrate RESTful APIs** and deploy full-stack solutions.
- Implemented **CI/CD pipelines** and **Dockerized microservices** for seamless deployment across environments.

OIL AND GAS DEVELOPMENT COMPANY LIMITED – Data Scientist

June 2023 – August 2023

- Built predictive models achieving **92% accuracy** for drilling operation optimization, reducing operational risks by **25%**.
- Delivered actionable insights that contributed to **30M PKR potential** cost savings in drilling operations.

PROJECTS

GOVERNMENT OF KPK– (Charsadda Schools 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 – (An automated machine learning assistant) (8th Semester FYP)

- **Developed 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**.

SAUDI GROUND SERVICES APP - (Accessibility mobile application)

- Developed **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) (8th Semester Project)

- Architected and deployed CI/CD pipelines, optimizing infrastructure scalability with **Azure DevOps, Docker, Kubernetes, Terraform, and Linux**.
- Orchestrated an **automated data pipeline** for ingestion, Spark processing, and real-time monitoring.

CERTIFICATIONS

- **HARDWARE AND OPERATING SYSTEM ESSENTIALS** | Coursera | Issued: July 2023.
- **DATA ANALYST PROFESSIONAL CERTIFICATE** | IBM | Issued: July 2025.
- **R PROGRAMMING FOR DATA SCIENCE** | IBM | Issued: July 2025.

SKILLS: Python, SQL, R, Machine Learning, Data Visualization (Power-BI, Tableau), Statistical Analysis (SPSS, SAS), Big Data frameworks (Apache Spark, Hadoop), DevOps, Ansible, Terraform, Kubernetes.

INTERESTS: Sports Analytics, Data Science for Business, Data Engineering, DevOps, Football, Cricket.