

Muhammad Mudassir Khan

Manager Data Science

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GitHub: github.com/w4zir
Location: Lahore, Pakistan (Open to Relocation)

PROFESSIONAL PROFILE

Data & AI Engineering Leader with experience **building and managing data teams** (Scientist, Engineer, Analyst) in fast-moving tech companies (**Q-Commerce**, **Mobility**, AgriTech, B2B Marketplaces). At **Delivery Hero** (Berlin), led a data science team of 8+ people delivering end-to-end forecasting and demand planning solutions across 50+ countries that improved availability by 5% with 75% orders placed unchanged. Previously built 15+ person data teams from scratch, architecting data pipelines, delivering end-to-end data and AI products and business dashboards to improve business efficiency.

PROFESSIONAL EXPERIENCE

Independent Data & AI Consultant | Self-Employed

Oct 2025 – Present · Lahore, Pakistan

- Developing production-ready data and AI systems with full-stack observability, safety guardrails, and evals. Key projects:
 - AI-based EdTech Assessment System;
 - MLOps platform for real-time fraud detection with feature store, drift detection, and CI/CD pipelines for model training and deployment.

Tech Stack: GCP, LangGraph, LLMs, Postgres, FastAPI, Kafka, Flink, MLflow, BentoML, Airflow, Python

Head of Data | Waseela

Jan 2025 – Sep 2025 · Lahore, Pakistan

- Core member of the Technology Leadership Team; defined organizational structures, hiring plans, and career ladders for Data Engineering, Analytics, and Data Science functions (12+ person org).
- Built an AI Agent-based RAG chatbot enabling employees to query company policies in natural language.
- Implemented computer vision-based animal identification using muzzle images on mobile devices.
- Architected fully automated data pipelines using medallion architecture.

Tech Stack: AWS (Redshift, SageMaker), Airflow, Airbyte, Metabase, Vector Databases, PyTorch, Python

Manager Data Science | Delivery Hero SE

Dec 2022 – Jan 2025 · Berlin, Germany

- Managed a team of 8+ data scientists and data engineers; collaborated with Engineering, Product, and Business to deliver intelligence products for Q-Commerce across 50+ countries (APAC, LATAM, MENA, EU).
- Built a demand forecasting and planning platform replacing a 20+ year industry veteran tool within 15 months, improving availability performance by up to 5% while maintaining stock-on-hand.
 - Generated daily recommendations for millions of SKUs, factoring supplier constraints, inventory levels, promotions, and backup ordering.
- Developed a price elasticities-based promotion model to predict the effect of promotions on demand forecasts.
- Optimized picking strategy (piece vs. box), reducing days-on-hand and lowering inventory carrying costs.
- Developed scalable data pipelines with ELT, orchestration, data observability (freshness, SLAs), online/offline evaluation and reporting/alerting.
- Collaborated with Amazon Professional Services to design a transportation management solution for last mile delivery in Q-Commerce supply chain.

Tech Stack: GCP (BigQuery, Cloud Functions, Cloud Run, Cloud Storage), Airflow, Python, SQL, Looker

Director of Data & BI | Retailo Tech

Sep 2021 – Nov 2022 · Lahore, Pakistan

- Built and scaled a 15+ person multidisciplinary organization from the ground up (Data Engineering, Analytics, Data Science, Annotation) to support rapid marketplace expansion.
- Led the Data-as-a-Product roadmap: delivered a procurement engine driving 20% availability improvement and margin expansion, plus intelligent search and recommendation engines optimizing user experience for 50k+ customers.
- Developed batch and streaming pipelines for data products within the org.

Tech Stack: AWS (S3, SageMaker, Redshift, QuickSight), dbt, Kafka, Flink, Argo Workflows, TensorFlow, Python

Technical Lead Manager | Motive (formerly KeepTruckin)

Oct 2017 – Sep 2021 · USA (Remote)

- Led teams developing AI dashcam based driver safety event detection algorithms for 150k+ vehicles, achieving an 89% detection rate vs. a 61% industry benchmark. [Report](#)
- Pioneered a novel accident detection approach using sensor fusion and data analytics, achieving >90% recall on catching accidents.
- Collaborated on a scalable method to distinguish normal stops from loading/unloading stops using truck GPS data at scale.

Tech Stack: AWS (S3, Lambda, Redshift, IoT), Kafka, TensorFlow, Python

EDUCATION

Doctoral Research – Robotics & Computer Vision (not completed)

Lahore University of Management Sciences (LUMS)

Jun 2012 – Oct 2017

Visiting Researcher | RPTU University Kaiserslautern-Landau, Germany (4 years).

Thesis: Safe Roadmaps – Traversability Analysis Using 3D Sensors for Autonomous Vehicles.

Master of Science – Computer Engineering

Lahore University of Management Sciences (LUMS)

Aug 2010 – Jun 2012

Bachelor of Engineering – Computer System Engineering

National University of Science & Technology (NUST)

Sep 2004 – Jun 2008

TECHNICAL SKILLS

Data Engineering	Python, SQL, ETL/ELT, Batch and Streaming data, Orchestration, Data Modeling, Semantic Layer, Data Governance, Observability
Cloud Platforms	GCP (BigQuery, Cloud Functions, Cloud Run, Vertex AI), AWS (S3, Redshift, SageMaker, Lambda)
MLOps	MLflow, BentoML, Airflow, dbt, Kafka, Flink, Feature Store, Model Registry, Pytorch,
Data Science and AI	Statistica models, Causal Inference, ML, DL, AI Agents, RAG
Languages	English (Fluent), Urdu (Native), Pushto (Native)

PUBLICATIONS

- H. Ali, A. Muhammad, M. M. Khan. "A Simple Framework for Context-Aware Driver Performance." IEEE 23rd International Conference on Intelligent Transportation Systems (ITSC), 2020.
- M. M. Khan, H. Ali, K. Berns, A. Muhammad. "Road Traversability Analysis Using Network Properties of Roadmaps." IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2016.

Hobbies and Interests

- Play Volleyball, captained University team
- I like strategy board games like Catan
- I play online games, particularly strategy and massive player vs player games. I also share my experience on YouTube.
- I have an interest in learning about history and politics to understand the world we live in.