

Tariq Jamal

Data Scientist/Analyst | AI Engineer | ML Engineer

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Iqama Status: Transferable

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PROFESSIONAL SUMMARY

Results-driven Data Scientist and AI/ML Engineer with over 10 years of experience delivering data-driven solutions across public sector, research, and consulting domains. Expert in predictive modeling, NLP, deep learning, and statistical analysis, with hands-on proficiency in Python, R, SQL, and Tableau. Skilled at building scalable analytics pipelines, deploying production-ready machine learning models, and leading cross-functional teams. Proven success in solving complex challenges in infrastructure, education, and workforce optimization. Passionate about aligning advanced analytics with strategic decision-making to accelerate digital transformation and data-informed policy-making.

SKILLS

- Machine Learning
- Deep Learning (CNNs, RNNs, NLP Basics)
- Statistical Analysis & Predictive Modeling
- Data Wrangling & Feature Engineering
- Exploratory Data Analysis (EDA)
- R, SQL, Python
- Agentic AI
- Cyber Security
- RAG & AI Solutions
- AI Strategy & Governance
- Tableau, Excel, Power BI & Shiny
- GCP, Azure, AWS & Snowflake
- Data Pipelines & ETL Automation
- A/B Testing & Model Evaluation
- Project Analytics & KPI Frameworks
- Stakeholder Communication & Report Writing

PROFESSIONAL EXPERIENCE

Education Monitoring Authority Mohmand, Pakistan

Data Scientist & Project Analytics Lead | Jul 2019 – Jul 2025

- Automated reporting processes using Python, accelerating decision-making and improving transparency for senior stakeholders.
- Led statistical modeling and resource optimization efforts, reducing project costs by 15% and public complaints by 8%.
- Managed a cross-functional team of 16 and collaborated with policymakers to align analytics with operational and donor reporting goals.
- Designed and deployed ML models to predict infrastructure readiness, budget risks, and delays for USAID-funded school projects in remote regions.
- Built interactive Tableau dashboards and automated SQL pipelines to monitor KPIs, contractor performance, and project progress.

Independent Monitoring Unit, Pakistan

Data Analyst | Monitoring & Performance Insights | Apr 2015 – Jul 2019

- Analyzed school performance, staffing, and infrastructure datasets to support educational planning and reform initiatives.
- Built dashboards for provincial leadership to track school conditions, learning outcomes, and compliance issues.
- Integrated data from multiple sources (field surveys, inspections, and government portals) into structured formats for analytics.
- Facilitated data-driven meetings with provincial leadership and donor representatives to drive transparency and action.

Freelance & Project-Based Roles

Data Scientist & ML Engineer (Part-time) | **2021 – Present**

- **OECD Health Dashboard (Shiny & Python):**

Designed an interactive healthcare utilization dashboard tailored for policy-makers, visualizing cross-country immunization rates and public health KPIs.

- **Agentic AI Executive Assistant Startup (Founding Member)**

Co-founded an Agentic AI venture focused on building intelligent executive assistant solutions, driving strategy, workflow automation, and early-stage product development.

EDUCATION

Ph.D. in Computer Systems Engineering (*Specialization in Data Science*)

University of Engineering & Technology (UET), Peshawar (March 2023 – Present)

Research: GenomeGPT, Leveraging Data Science and Genomics for Disease Prediction

M.Sc. in Computer Systems Engineering

University of Engineering & Technology (UET), Peshawar (2015 – 2019)

Research: Proposed Methods for Prevention of SQL Injection Attacks

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Google Data Analytics Specialization
- Google Project Management Specialization
- Deep Learning Specialization – Coursera
- Google Advanced Data Analytics Specialization
- Google Business Intelligence Specialization
- Google Soft Skills Program

SOFT SKILLS

- Strong analytical and structural thinking for solving complex scheduling and data problems
- Excellent organizational and planning skills with attention to detail
- Effective in handling scheduling conflicts and resolving discrepancies diplomatically
- Multicultural sensitivity and collaborative team player across departments
- Efficient in time management and multitasking in high-pressure environments
- Clear and professional communicator with strong stakeholder engagement skills

LANGUAGES

English (IELTS with overall 7 band score), Urdu, Pashto, Arabic (Basic)