

FARAZ JAWED

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EDUCATION

Duke University

Master of Science in Data Science; CGPA 3.9

- Relevant Courses: Natural Language Processing, Statistical Modeling, Data Engineering, Machine Learning, Cloud Computing, Deep Learning & Neural Networks

Durham, NC

Aug 2023 – May 2025

Lahore University of Management Sciences

BSc (Honors) in Finance; Minor in Computer Science; CGPA 3.6

- Relevant Courses: Object Oriented Programming, Data Science in Python, Fintech Revolution, Data Structures, Machine Learning, Actuarial Sciences, Econometrics, Software Engineering

Lahore, Pakistan

Aug 2018 – June 2022

EXPERIENCE

The World Bank

Data & AI Consultant

- Engineered LLM-powered autonomous agents (speech to text) leveraging OpenAI and Azure APIs to reconcile global fixed income and derivatives trades, cutting reconciliation errors and manual time by over 40%.
- Automated portfolio risk reporting for \$300b+ AUM by designing Python workflows that extract, aggregate, and validate multi-currency exposures across asset classes in minutes, not hours.

Washington, DC

Jun 2025 – Present

Barclays

Quantitative Trading Summer Associate

- Rotated across Flow Volatility Derivatives Trading (equities), Electronic FX Trading, and Systematic Credit Trading.
- Built a clustering algorithm classifying incoming client RFQs into 4 tiers as a new input to Barclays' proprietary bond pricing algorithm; back-testing showed roughly 10% improvement in hit rate and quote rate.
- Created a low-latency interactive dashboard monitoring FX client flows and alerting the desk to likely hedge-fund exit trades, improving average hedging costs by 22% for the eFX desk.

New York City, NY

Jun 2024 – Aug 2024

Baraka Financial Limited (YC21)

Product Data Scientist (Growth Squad)

- Pioneered Baraka's first monetization feature, designing and rolling out a comprehensive in-app pricing model charging \$0.98 per trade, generating the company's inaugural revenue stream.
- Operated as the product owner within a cross-functional growth squad, translating user behavior into feature, campaign, and roadmap decisions.
- Boosted conversions by 12% in 6 months using XGBoost to pinpoint high-value user segments from engagement features, sharpening targeting and product prioritization.
- Identified key customer trends using SQL (PostgreSQL and AWS Redshift) and implemented growth strategies which improved relevant KPIs (AUM, Net Deposits, and Cumulative Funded Accounts) by 35% in 8 months.
- Developed CRM and marketing frameworks, achieving a 33% cost-per-install decrease and 14% MoM increase in daily app users.

Dubai, UAE

Jun 2022 – Jun 2024

RESEARCH & PROJECTS

Capstone Research: Generative AI Safety (Meta, Gen AI Safety Team)

- Co-authored [IEEE Access paper](#) establishing industry benchmarks for text-to-image (T2I) model safety datasets.
- Evaluated and strengthened Meta's T2I model safeguards by developing adversarial prompts and policy-guided test cases, directly improving defenses against political misinformation and harmful content ahead of the 2024 US Election.
- Built and launched a platform for collecting and annotating culturally sensitive prompts from 10 global geocultures, supporting the creation of an open-source benchmark dataset to improve cultural safety in GenAI systems.

Cloud-Based Food Image Recognition and Q&A System – [GitHub](#)

- Developed a web app for food image recognition integrating a custom pre-trained model (saved on Amazon S3) for image classification and Hugging Face's API for Llama, providing users an interface to ask queries about that food item (calories, health effects, etc.).
- Used Streamlit (Python) for frontend and Rust for backend; achieved efficient deployment architecture with separate security groups for load balancer and ECS instances, enhancing application security.
- Implemented CI/CD pipeline using GitHub Actions for automatic containerization with Docker and deployment on AWS (ECR, ECS, EC2).

NBA Live Commentary Generator (Duke Generative AI Hackathon) – [GitHub](#)

- Developed a multimodal tool for live AI-generated commentary using SportsRadar API, OpenAI, and Gemini API for text-to-speech integration.
- Used the FAISS vectorized database for storing contextual information for efficient retrieval within <1s delay compared to the live video.

SKILLS & INTERESTS

- **Languages/Tech Stack:** Python (Pandas, NumPy, PyTorch, TensorFlow, Spark), R, SQL, Kotlin, Rust, Spark, FastAPI
- **Software Tools & Cloud:** Databricks, Snowflake, Hugging Face (LLMs), CLI-based LLM tools and Agents
- **Data Science & Visualization:** Tableau, PowerBI, Matplotlib, Seaborn, Google Analytics 4, JavaScript, TypeScript