

Raihan Jashil

+974-55757534 | raihanjashil@gmail.com | linkedin.com/in/raihanjashil | github.com/raihanjashil

AI Engineer

EDUCATION

Bachelor of Science in Data Science and Artificial Intelligence

GPA: 3.56 / May 2026

University of Doha for Science and Technology

Relevant coursework: Deep Learning, Machine Learning, Data Analysis & Visualization, Advanced Business Analytics, Parallel & Distributed Computing, Database Management Systems, Web Technologies II, Fundamentals of IoT, Statistics, Discrete Structures and Algorithms

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, HTML, CSS

Libraries & Frameworks: PyTorch, TensorFlow, scikit-learn, XGBoost, pandas, NumPy, FastAPI, LangGraph, Matplotlib, Seaborn

Tools & Databases: MongoDB, PostgreSQL, Firebase, Google Gemini API, Git, PowerBI, DAX, QlikView

EXPERIENCE

Qatar Computing Research Institute (QCRI) | Ar-Rayyan, Qatar

May 2026 – Present

Research Intern

- Baselines lead on a deep learning research project for genomic mutation effect prediction; evaluated four genomic foundation models (Enformer, Borzoi, Nucleotide Transformer, AlphaGenome) and mapped their transformer architectures to inference requirements.
- Engineered end-to-end inference pipelines in Python for large transformer models on hg38 reference sequences (up to 524,288 bp), implementing sequence extraction, center-padding logic, and output validation against experimental ground-truth via Pearson correlation across 5,313 genomic assay tracks.
- Containerized per-model environments with reproducible conda setups and resolved cross-platform dependency conflicts to deploy models onto remote GPU infrastructure via SSH.

PrimeTax | Abu Dhabi, UAE (Remote)

Jun 2025 – Dec 2025

AI/ML Freelance

- Built two production web applications for automated invoice data extraction, integrating the Google Gemini API for LLM-based document understanding.
- Engineered a multi-format document-processing pipeline (PDF, JPG, PNG, TIFF, BMP, WEBP) with intelligent 5-page PDF chunking and dynamic line-item detection to handle varying invoice layouts.
- Automated structured Excel report generation with custom formatting, branding, and file-splitting features.

Primary Health Care Corporation (PHCC) | Doha, Qatar

Jan 2026 – Mar 2026

Data Science Intern

- Recognised by the Head of Business & Health Intelligence, Mr. Chiragkumar Gohel, for delivering high-impact work, resulting in a formal referral for post-graduation employment and two dashboards being considered for departmental publication.
- Built Power BI dashboards using DAX for senior management and operations teams, translating complex health data into actionable insights.
- Cleaned and preprocessed multi-source datasets, building robust ETL pipelines to ensure data quality and integrity for modelling.

Vismaya Infotech Solutions | Doha, Qatar

Jun 2024 – Aug 2024

AI/ML Intern

- Designed and optimized a threshold-based classification model, achieving 86% accuracy and presenting results to technical leadership.
- Cleaned and preprocessed multi-source datasets, building robust pipelines to ensure data quality and integrity for modelling.

PROJECTS & COMPETITIONS

Nuqoodi Mobile Banking Platform | AI/Data Science Lead

Fall 2024 – Spring 2025

- Designed and served an MLP neural network achieving 91% accuracy in financial profile classification, benchmarked against Random Forest (85%) and XGBoost (83.5%) across seven algorithms.
- Built a feature-engineering pipeline over 16 financial metrics with SMOTE for class imbalance, powering an adaptive learning system with age-stratified content and automated struggle detection.
- Deployed the model in production via FastAPI microservices with real-time inference, a Firebase/MongoDB backend, and integrated model versioning for continuous deployment.

Fanar Hackathon (QCRI) — 2nd Place

June 2026

- Built Midad, a bilingual Arabic/English calligraphy tutor on Fanar (Qatar's LLM), architecting a strict split where deterministic code handled trajectory geometry, scoring, and workflow control while Fanar models (Fanar-C-2-27B for feedback, Oryx for vision, Shaheen-MT for translation) handled language, pedagogy, and visual assessment.
- Orchestrated multi-step agentic workflows with LangGraph, including a curriculum generator with validate/repair loops and a sentiment-to-calligraphy pipeline, with Guard-gated generation, Zod-validated model I/O, and deterministic fallbacks ensuring coherent output even with the LLM fully offline.
- Delivered a full-stack Next.js / React 19 / TypeScript app with Supabase authentication, Postgres, row-level security, and private storage, using Fanar Oryx to segment and score photographed paper worksheets against digital references.

QSTP Hackathon (Stars of Science Edition) — 2nd Place

June 2026

- Built PostPulse, an end-to-end AI content studio on a FastAPI backend, integrating OpenAI GPT-4o to score drafts across Twitter/X, LinkedIn, and Facebook on a five-dimension rubric (hook, clarity, CTA, format, tone) with platform-specific hard-rule checks, per-persona rewrites, and bilingual English/Arabic detection.
- Engineered an AI video pipeline using faster-whisper transcription, scene analysis, and natural-language chat-driven editing, plus an FFmpeg music mixer with three modes (background blend with speech-aware auto-ducking, full replace, keep-original) driven by GPT mood detection over Jamendo tracks and ffprobe audio analysis.
- Implemented OAuth 2.0 + PKCE account connection with direct publishing, versioned non-destructive renders, and a resilient architecture where the optional heavy media stack degrades gracefully to HTTP 503 without blocking the core API.

Qatar Fintech Hackathon

May 2025

- Presented Nuqoodi Mobile Banking Platform, showcasing AI-driven financial literacy solutions and adaptive learning systems with scalable ML pipeline implementation.

Huawei AI Innovation National Competition

Fall 2024

- Achieved 4th place nationally; engineered a neural network solution for financial habit detection in youth demographics, achieving 89% prediction accuracy.

Samsung Innovation Campus — Qatar

Fall 2023 – Spring 2024

- Developed a CNN model for food classification using large-scale Kaggle datasets as part of Qatar's first Samsung Innovation Campus cohort, achieving 86% recognition score.

Qatar Collegiate Programming Contest (CMUQ)

Fall 2024 – Fall 2025

- Competed in algorithmic programming contests, applying data structures, algorithms, and optimization techniques under time constraints.

ADDITIONAL INFORMATION

Languages: English, Hindi

Driving License: Qatar