

Muhammad Qasim Ayyaz

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Applied AI Engineer | Experience in LLMs, NLP, Full-Stack Development & Cloud AI Deployment | Applied AI / Information Systems Focus | Interests: Scientific computing, anomaly detection, real-time systems, ML for physical data.

EXPERIENCE

Rendezvous Motors

Founder & Developer

Feb 2026 - Present

- Building and testing a map-based car community app enabling live meetup discovery, user verification, and real-time convoy coordination, solving fragmentation across WhatsApp/Instagram/Snapchat.
- Engineered full-stack with React Native (Expo Router), Bun/Hono backend, SQLite/Prisma, and real-time location polling supporting active cruise convoys.
- Implemented email/phone OTP authentication, private group permissions, and leader heartbeat expiry (120s) to handle signal loss scenarios.
- Designed database schema for users, groups, meets, and live cruise participant tracking with Haversine-based proximity checks.
- Currently in active development with core features implemented and testing across multiple devices; preparing for community beta launch.

AI & Development Lead – Global AIX Hackathon Qatar

Top 3 Contestant

October 2025

- Selected in the Top 3 globally among 80+ teams; presented to judges from Ooredoo Qatar, QDB, and Snoonu.
- Led AI & full-stack development for a Fintech regulatory compliance platform (“Regulatory Navigator & Readiness Evaluator”), including interactive dashboards and real-time data handling.
- Achieved 87.5% precision rate by integrating GPT-4o mini and hard-coded regulatory frameworks
- Built frontend and backend (Streamlit, Python) with real-time data handling, multilingual support, and interactive dashboards.

Mindrift

Remote

AI Data & Evaluation Engineer

Oct 2025 - Present

- Generated and labelled high-quality datasets to train LLM reasoning and decision-making tasks.
- Performed structured evaluation workflows to identify model weaknesses and enforce safety, accuracy, and behavioural consistency.
- Conducted QA on multi-step reasoning outputs to ensure alignment with expected logical patterns.
- Collaborated on refining evaluation criteria for next-generation autonomous agents.

Rock River Research Ltd

Intern (AI Research)

Jun 2025 – Aug 2025

- Integrated LLM-powered summarization and semantic search features into the Pearl Knowledge System.
- Evaluated retrieval pipelines and proposed improvements to ranking logic and embedding workflows.
- Developed prototypes demonstrating applied NLP for enterprise knowledge management.

Outlier AI

Remote

AI Model Evaluation Engineer

Nov 2024 - Present

- Evaluated LLM-generated code in Python, Java, and C++ for correctness, efficiency, and logical consistency.
- Designed structured test workflows that improved model reliability and reduced hallucination cases.
- Analysed reasoning failures and contributed empirical insights used to improve model alignment.

Technical Skills: Python, Java, SQL, Linux/Unix, Bash | TypeScript, React Native, LLMs, Hugging Face Transformers, NLP | AWS | Distributed Systems, Nginx-RTMP | Git | Supabase, Tableau, Excel, Access, Office 365 | IsolationForest, StandardScaler, Pandas, NumPy

EDUCATION & TRAINING

University Of Aberdeen

Doha, Qatar

B.S.C (Hons.) in Business Management & Information Systems

Expected Graduation, May 2027

- **Related Coursework:** Computer Systems & Architecture, Object-Oriented Programming, Software Programming (Python, Java), Algorithms & Data Structures, Databases & Data Management (SQL, data modelling), Artificial Intelligence, Principles of Software Engineering, Web Development, Human–Computer Interaction, Software Engineering & Professional Practice, Security, Research Methods (computing-focused)

VOCATIONAL TRAINING

Samsung Innovation Campus — Artificial Intelligence Program

Sep-Dec 2025

- Completed 240+ hours of structured training in machine learning, deep learning, NLP, and cloud-based AI deployment.
- Participated in weekly instructor-led sessions and team projects with formal evaluation, strengthening practical model-development, optimisation, and collaboration skills.
- Built an NLP customer-complaint classification capstone using TF-IDF, Logistic Regression, and SVM across 10,000+ records; achieved 92%+ validation accuracy.

GCI World — Matsuo-Iwasawa Laboratory, The University of Tokyo

Sep-Dec 2026

- Accepted participant in a three-month data-science program developed by the Matsuo-Iwasawa Laboratory University of Tokyo.
- Completing 22+ teaching hours of weekly lectures and assignments covering Python, NumPy, Pandas, data cleaning, Matplotlib visualisation, SQL, and business applications of data science.
- Developing machine-learning capability across supervised and unsupervised learning, model evaluation, feature engineering, and time-series analysis.

PROJECTS

[EstateHub](#) — Real Estate Marketplace Platform

Personal Project

Jan 2026 – Present

- Built and deployed a full-stack real estate marketplace for the Qatari property market using React 18, TypeScript, Vite, Supabase (PostgreSQL + RLS), TanStack Query, and Tailwind CSS with shadcn/ui; live on Vercel with an active backend.
- Identified and remediated a live role-escalation vulnerability, implementing JWT-based role management via app_metadata, audited RLS policies preventing client-side privilege escalation, and database-level unique constraints eliminating double-booking.
- Delivered end-to-end product features including membership-gated listings, live viewing bookings, seller dashboards, and a full admin panel.

AI-Driven Predictive Maintenance & Operational Analytics For Oil & Gas Applications

Personal Project

Dec 2025 – Present

- Applied IsolationForest with StandardScaler over a multivariate time-series pipeline (Pandas, NumPy) for unsupervised anomaly detection in high-frequency industrial sensor data, surfacing early-warning failure signatures.
- Built an interactive Streamlit dashboard visualizing pressure curves, anomaly scores, and risk zones to support real-time engineering decision workflows.

Seamless-Stream Orchestrator (Real-Time Streaming Controller)

Personal Project

Apr 2025

- Engineered live streaming relay system enabling instant switching between multiple video inputs without interrupting broadcast
- Built a **Python GUI** displaying real-time metrics (bitrate, latency, packet loss) for stream diagnostics.
- Designed an RTMP relay-based distributed architecture to isolate inputs from broadcast outputs, **reducing stream interruptions by 60%** and ensuring uninterrupted viewer experience.

ACHIEVEMENTS & CERTIFICATIONS

Achieved Highest Grade in Databases & Data Management (University of Aberdeen)

Skills: SQL, ER modelling, data warehousing, spatial data management, data analysis, dashboard creation

Achieved Highest Grade in Algorithms & Programming (University of Aberdeen)

Skills: Python, Java, data structures, algorithms, recursion, modular programming, scientific computing applications

NVIDIA 6G Developer Program

May 2026

Selected member with access to Aerial CUDA-Accelerated RAN, Aerial Omniverse Digital Twin, and NVIDIA NGC cloud infrastructure for AI-native 6G development.

Cisco Introduction to Modern AI Certification

Apr 2026

Certification

Cisco Python Essentials 1 & 2 Certification

Apr 2026

Certification

AWS Cloud Solutions Architect – Professional Certificate (Coursera)

Dec 2025

Certification

Specialization in Google Data Analytics

Aug 2024

Certification

Course in Google AI Essentials

Jun 2024

Certification