

MOHAMMAD AAQUIB JAWED

AI / Machine Learning Engineer

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SUMMARY

AI Engineer with 5+ years of professional software engineering experience, the last three focused on machine learning — computer vision, LLM and agentic systems, RAG pipelines and large-scale data analytics. MSc in Artificial Intelligence (Distinction, top of cohort) from the University of East London, where I now teach Machine Learning and Big Data labs. I specialise in taking models from research to reliable, CPU-deployable production services.

TECHNICAL SKILLS

AI / ML: LLMs & Generative AI, Agentic AI, RAG Pipelines, LangChain, LangGraph, Vector Databases (FAISS, pgvector), LLM Evaluation, Prompt & Context Engineering, Computer Vision, NLP

ML Engineering: Python, PyTorch, TensorFlow/Keras, scikit-learn, ONNX Runtime, OpenCV, MediaPipe, Docker, CI/CD, model deployment & drift monitoring

Big Data: PySpark, Spark SQL, Hive, Hadoop, Pandas, NumPy, large-scale data pipelines

Engineering & Cloud: Ruby on Rails, Flask, Django, React, Node.js, REST APIs, PostgreSQL, MySQL, Elasticsearch, Redis, AWS, Git

EXPERIENCE

Founder & Lead Engineer | heyengineers.com — London, UK Mar 2025 – Present

- Built and launched a full-stack engineering content platform, growing it to 500+ registered users and ~5,000 monthly visits across 40+ technical articles within four months of launch.
- Designed and shipped ML-driven content discovery; own the entire stack — architecture, CI/CD and production operations.

Lab Tutor, Machine Learning & Big Data | University of East London 2025 – Present

- Teach postgraduate Machine Learning and Big Data lab modules, mentoring students through model building, evaluation and large-scale analytics with PySpark.

Senior Software Engineer | Norstella (remote) Jul 2024 – Feb 2025

- Cut clinical-study page load times by 55%+ under high traffic through backend and caching optimisation.
- Raised PatientMatch alert accuracy by 25% and resolved 90% of Snyk security findings (XSS, clickjacking) by enforcing CSP headers and refactoring unsafe code.
- Led a full CMS migration (Contentful → Keystone) that reduced platform costs.

Software Engineer | PropertyPistol Nov 2022 – Jun 2024

- Cut search response time 50% and lifted result accuracy 35% by tuning Elasticsearch clustering and Query DSL; reduced race conditions 60% with Mutex and atomic synchronisation.

Earlier: Software Developer, Edcast (Jul 2021 – Oct 2022) — real-time notifications (+20% engagement), API response times -30%.
Software Engineer, Cypher IT Solutions (2019 – 2021). Cyber Security Intern, Gurugram Police (2021).

SELECTED AI PROJECTS & RESEARCH

Real-Time Face-Recognition Attendance System | MSc Dissertation — Distinction (92) 2025

- Built an end-to-end computer-vision system (ArcFace ResNet-50 via ONNX Runtime, CPU-only) with a multi-signal liveness pipeline that blocked 99.3% of printed-photo spoofing attacks at sub-100ms latency, secured by a 256-bit HMAC location proof across a Rails + Flask architecture.

Agentic AI Customer-Service System | MSc Intelligent Systems — Distinction (92) 2025

- Designed an autonomous multi-agent LLM system (LangChain/LangGraph) with retrieval-augmented generation that automates multi-step support workflows, evaluated with task-success and performance metrics.

Skin-Lesion Classification (NAS, medical imaging) | Research, University of East London 2025

- Rebuilt a stalled skin-cancer classification pipeline at a professor's request, raising recall from a 49% baseline to 77.7% with 0.86 AUC over 27,000+ ISIC images (NASNetMobile, focal loss, class-imbalance handling).

Pharmacy & Healthcare Decision-Support System | Sole author — research project 2025

- Designed a clinical decision-support system to NHS-scale requirements: RandomForest models for drug-interaction, demand and disease prediction, with a model registry, drift monitoring and audit logging.

Mowqit | Android App, Published on Google Play 2025

- Built and shipped a privacy-first offline Android timer app (React Native, TypeScript, Zustand) with Doze-proof exact-alarm scheduling, R8 obfuscation with tamper detection, and a zero-data-collection design (no INTERNET permission).

EDUCATION

MSc Artificial Intelligence — Distinction (93% average, top of cohort) | University of East London 2024 – 2026

Big Data Analytics 99, Dissertation 92, every module 90+.

B.Tech, Computer Science & Engineering | Accurate Institute of Management & Technology 2015 – 2019

AWARDS & OPEN SOURCE

AI Hackathon — 1st Prize · Gold Star Award, Norstella · Rising Star Award, Edcast · Open source: Tor Project, GitLab · 70+ public repos, 1,000+ GitHub contributions/yr (Pull Shark x3)