Mohammad Jaan

+91 8591260318 | mulanimohammadjaan@gmail.com | linkedin.com/in/mohammad-jaan | github.com/mohammadjaan013 | Portfolio | Navi Mumbai, India

Experience

Software Development Engineer Jan 2026 – Present
TickleRight Eduventures Pvt. Ltd. *Andheri E, Mumbai*

- Architected a serverless AWS video processing pipeline (Lambda + custom FFmpeg layer + S3 event triggers) to migrate 2.5 TB/month of legacy educational content from Google Drive, eliminating playback latency for thousands of end-users.
- Achieved 85% reduction in storage costs by compressing 3 GB source videos to ∼300 MB using custom FFmpeg presets, maintaining full visual fidelity.
- Sole engineer responsible for end-to-end design, deployment, and monitoring of the pipeline in production.

Software Developer Intern *Jul 2025 – Oct 2025*

- Designed a secure HLS video streaming infrastructure for the B2B Teacher Training platform using AWS CloudFront Signed URLs and token-based access control, eliminating unauthorized content downloads and reducing bandwidth costs by 15%.

Full-Stack Development Intern Jan 2025 – Jun 2025
ExcelR Solutions *Remote*

- Built the Mumbai Tourist Portal using the MERN stack (MongoDB, Express, React, Node.js) with JWT authentication and Role-Based Access Control (RBAC) for multi-role user management.
- Integrated Google Maps API for real-time routing and distance calculation, enhancing itinerary planning for end-users.

Machine Learning Intern Dec 2023 – Feb 2024
Claidroid Technologies Pvt. Ltd. *Remote*

- Built a botanical classification system using YOLOv8 with transfer learning across 200+ Ayurvedic plant species, achieving 89% model accuracy on a self-annotated 2,000+ image proprietary dataset.

Projects

Autonomous Job Application Agent | *Next.js, FastAPI, PostgreSQL, Python, Groq/Llama, Gemini, Playwright* Oct 2025 – Present

- Orchestrates scraping, analysis, and form-filling for 200+ daily job listings across 6+ platforms, reducing manual job search effort by ∼15 hours/week.
- LLM analysis pipeline (Groq Llama-3.3-70B primary with multi-model fallback, Gemini failover) scores resume-to-JD match (0–100, validated JSON outputs) and generates tailored cover letters, with batch processing and quota-aware provider switching.
- Productized as a multi-user SaaS: Razorpay billing with tiered usage tracking, JWT + Google OAuth authentication, Sentry monitoring, and Dockerized deployment on AWS EC2.
- Real-time analytics dashboard (Next.js 14 Server Actions) tracks application status, pipeline health, and match rates across platforms.

HerbVision – Ayurvedic Plant Identifier | *Python, YOLOv8, TensorFlow, React Native* May 2024

- Fine-tuned YOLOv8 on a self-curated 5,000+ image dataset (7 field locations, diverse lighting and backgrounds), improving mAP from 76% to 93%.
- Quantized model from 120 MB to 40 MB (67% reduction) for mobile deployment via React Native, maintaining 91% accuracy on-device.
- Curated dataset through field photography ensuring diverse plant maturity stages, backgrounds, and lighting conditions across 200+ species.

Education

K. J. Somaiya Institute of Technology Mumbai, India
B.Tech in Computer Engineering | CGPA: 9.10 / 10.0 *2021 – 2025*
Honours in Artificial Intelligence & Machine Learning | Grade: 81% *2023 – 2025*

Technical Skills

Cloud & Infra: AWS (Lambda, S3, CloudFront, EC2, RDS, IAM), Docker, GCP / Vertex AI
Backend: Python, FastAPI, Node.js, PostgreSQL, MongoDB, REST APIs
Frontend: Next.js, React.js, TypeScript, JavaScript, HTML/CSS, PHP
AI / ML: PyTorch, TensorFlow, YOLOv8, LangChain, LLM Integration (Groq/Llama, Gemini), Prompt Engineering
CS Fundamentals: Data Structures & Algorithms, System Design, OOP, Operating Systems, CI/CD
Languages: Python, JavaScript / TypeScript, C/C++, SQL

Certifications

Machine Learning Specialization – Coursera (Andrew Ng) | Neural Networks, Deep Learning
AWS Cloud Fundamentals – Amazon Web Services | EC2, S3, RDS, Lambda, IAM
Oracle Generative AI Professional | LLM Fundamentals, Prompt Engineering, AI Application Development