Mohammed Qambar Syed

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Summary

Aspiring Machine Learning and XR Developer with hands-on experience in building intelligent systems, automation workflows, and full-stack AI applications. Skilled in Python, computer vision, deep learning, backend engineering, and browser automation. Developed production-level AI projects including job automation platforms, plant-disease detection systems, safety monitoring solutions, and career-copilot applications. Focused on real-world problem-solving and robust technical implementation.

Education

Bachelor of Technology in Computer Science Engineering 2024 – 2027 (Expected)
Integral University, Lucknow
CGPA: 8.5

Diploma in Computer Science Engineering 2021 – 2024
Integral University, Lucknow
CGPA: 7.5

Work Experience

AI Engineer Intern — Robotics Lab, Integral University Feb 2025 – Aug 2025

- Designed and developed the **LeafLens** CNN-based plant disease detection model from scratch.
- Improved model accuracy from **70% to 83%** through dataset restructuring, augmentation, transfer learning, and hyperparameter tuning.
- Built automated pipelines for symptom-based dataset creation, preprocessing, augmentation, and multi-class model training.
- Implemented segmentation and feature extraction workflows enabling reliable classification across **15+ disease categories**.
- Collaborated with faculty researchers to validate real-time performance and optimize the model for deployment.

Projects

Agentic AI Career Co-Pilot — Full-Stack AI Job Automation Platform
FastAPI, MongoDB, LangChain, Gemini API, Playwright, React, Docker

- Designed a full-stack AI career assistant enabling resume optimization, skill-gap analysis, job search automation, and interview coaching.
- Engineered backend services for LLM-powered resume parsing, JD comparison, automated skill extraction, and version management.
- Built authentication and user management using JWT, with dashboards and analytics for personalized insights.
- Implemented Playwright automation for job scraping, JD extraction, and guided job-application workflows.
- Developed a responsive React frontend with reusable UI components and visual analytics (Recharts).
- Containerized backend and database layers using Docker Compose for scalable deployment.

LeafLens — AI Plant Disease Detection System
TensorFlow, OpenCV, CNN, Transfer Learning

- Created a production-ready CNN model for plant leaf disease classification, improving accuracy from **70% to 83%**.
- Applied transfer learning, Grad-CAM explainability, optimized augmentation, and preprocessing to improve robustness.
- Engineered efficient training workflows enabling stable classification across multiple disease categories.

Danger Object Detection — Real-Time Safety Monitoring System
Python, OpenCV

- Developed a real-time safety detection system using classical computer vision techniques without pose-detection APIs.
- Implemented custom boundary detection, thresholding, contour tracking, and contextual danger alerts.
- Optimized frame processing for stable performance under variable lighting conditions.

Resume & Job Application Automation Assistant
Python, Playwright, MongoDB, Gemini API

- Built a CLI-based assistant automating resume tailoring, JD extraction, and skill-gap identification.
- Integrated persistent memory (MongoDB) for storing user profiles, skills, experience, and job tracking data.
- Automated keyword mapping, JD comparison, and AI-driven resume rewriting workflows.

Railway QR Authentication System — SIH Hackathon Project
Security, Automation

- Created a secure QR-based passenger authentication system to reduce impersonation and compartment-level entry fraud.
- Developed encrypted QR workflows and backend validation mechanisms optimized for low-connectivity environments.

Skills

Programming Languages: Python, Java, JavaScript
AI & Machine Learning: TensorFlow, PyTorch, Scikit-learn, NLP, OpenCV, NumPy, Pandas
Backend & APIs: FastAPI, REST APIs, Node.js
Automation & Tools: Playwright, Docker, Git, GitHub, Jupyter Notebook
Frontend: React.js, HTML5, CSS3
Databases: MongoDB, MySQL
Other: Data preprocessing, model deployment, containerized workflows

Achievements

- Selected for **Smart India Hackathon (SIH)** for developing a railway security automation solution.
- Improved plant disease classification accuracy by **13%**, earning recognition at the Robotics Lab.
- Successfully deployed multiple AI systems including automation tools, safety detection systems, and full-stack AI platforms.
- Completed a 6-month AI internship focused on applied machine learning and real-world deployment.

Certifications

- IBM Machine Learning Certification — IBM SkillsBuild
- Machine Learning A–Z — Udemy