SHAIK LUQMAN SAJID

Software Development Engineer — Applied AI & Machine Learning

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Summary

Research-oriented Software Development Engineer with strong experience in applied machine learning, computer vision, and data-driven systems. Proven ability to plan and execute experiments, preprocess large datasets, develop and evaluate models, and contribute to academic research workflows. Experienced in translating research ideas into reproducible experiments and scalable AI-driven systems, with hands-on exposure to publications, internships, and end-to-end ML pipelines.

Research & Industrial Experience

Research Intern — King Abdullah University of Science and Technology (KAUST), Remote Feb 2025 – Jun 2025

- Planned and executed multiple deep learning experiments for computer vision applications.
- Developed data preprocessing and augmentation pipelines to improve model robustness.
- Analyzed model performance across multiple experimental runs using accuracy, precision, recall, and F1-score.
- Identified performance bottlenecks and optimized training strategies through iterative experimentation.
- Documented experimental outcomes and contributed to collaborative technical reviews.

Machine Learning Engineer Intern — Infosys, Remote Nov 2025 – Dec 2025

- Processed and consolidated multi-source datasets for Fire Weather Index (FWI) prediction.
- Engineered features and normalized data to support regression-based modeling.
- Trained and assessed regression models, ensuring stable predictions across validation runs.
- Deployed trained models via a Flask-based inference service to support real-time evaluation.

AI Engineer Intern — Innomatics Research Labs, Remote Feb 2024 – Apr 2024

- Developed Retrieval-Augmented Generation (RAG) pipelines to extract structured insights from unstructured datasets.
- Applied NLP techniques and LLM-based workflows to generate personalized learning recommendations.
- Automated extraction of LinkedIn profile information from Zoom chat logs, reducing manual effort.
- Delivered end-to-end ML pipelines covering data ingestion, processing, and inference.

Education

B.Tech in Computer Science and Engineering, Amrita Vishwa Vidyapeetham *2023 – 2027* CGPA: 8.3

Relevant Coursework: Data Structures and Algorithms, Machine Learning, Deep Learning, Computer Vision, Database Systems, Operating Systems, Computer Networks, Probability and Statistics

Intermediate, Junior College *2021 – 2023* Percentage: 91.1%

Class X, Sri Krishnaveni E.M High School *2020 – 2021* Percentage: 91.8%

Projects

Multi-Label Ocular Disease Classification Using Deep Learning (In Preparation)

- Developing a multi-label deep learning pipeline for classification from retinal fundus images.
- Applying image preprocessing and data augmentation techniques to address class imbalance.
- Analyzing model performance using precision, recall, F1-score, and AUC metrics.
- Investigating challenges such as overlapping labels and noisy annotations.

Face Expression Recognition

- Developed a computer vision pipeline to detect and classify human facial expressions.
- Applied preprocessing and feature extraction techniques to enhance classification accuracy.
- Assessed model performance using accuracy metrics and confusion matrix analysis.
- Optimized the pipeline for real-time inference scenarios.

PrescriptionX – Prescription Maker

- Developed a web-based application for generating structured medical prescriptions.
- Implemented standardized input workflows for patient details and medication dosage.

- Improved data consistency and usability for real-world deployment scenarios.

URL Shortener

- Developed a Django-based URL shortening service with database-backed redirection logic.
- Implemented efficient link storage and retrieval mechanisms.
- Designed the backend architecture to support scalability and basic analytics.

Hand Gesture Shooter

- Built a browser-based shooting game controlled via real-time hand gesture recognition.
- Applied MediaPipe Hands for landmark detection using live webcam input.
- Implemented gesture-driven aiming, shooting mechanics, and dynamic gameplay logic.
- Optimized rendering and interaction performance using JavaScript and HTML5 Canvas.

Publications

- **The HOME App: Real-Time Feedback Framework for School Meal Hygiene**
  International Journal of Advanced Multidisciplinary Research and Development
- **LEAP: Traffic-Aware Routing in Encrypted SDN Environments**
  IEEE Conference Publication
- **Multi-Label Ocular Disease Classification Using Deep Learning**
  Manuscript in preparation

Skills

Programming	Python, Java, C++, SQL
Machine Learning & AI	Supervised Learning, Unsupervised Learning, Deep Learning, Computer Vision, Natural Language Processing (Transformers), Multi-Label Classification
Research & Modeling	Data Preprocessing, Feature Engineering, Experiment Design, Model Training, Hyperparameter Tuning, Model Evaluation (Accuracy, Precision, Recall, F1, AUC)
Deployment & Tools	Flask, Streamlit, Model Serving, Google Cloud Platform (GCP)
Databases	MySQL, MongoDB
Core CS	Data Structures and Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks

Certifications

- **Oracle Cloud Infrastructure 2025 Certified Architect Associate** — Verify
- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** — Verify
- **Python Full Master — GeeksforGeeks** — Verify
- **Big Data Emerging Technologies — Yonsei University (Coursera)** — Verify

Leadership & Academic Engagement

- **Google Campus Ambassador** — Promoted developer programs and technical learning initiatives on campus.
- **Student Council (International Affairs)** — Assisted in international academic collaborations and student outreach.
- **Times of India Hackathon** — Secured **Top 5 position** among **5,000+ participants**, demonstrating strong problem-solving and applied technical skills.

Languages

English, Urdu, Hindi, Japanese,Telugu