ABDUL QAYOOM MANGI

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AI & Data Science | Software Engineering Student

PROFESSIONAL SUMMARY

Motivated Software Engineering student with hands-on experience in Machine Learning, Deep Learning, Computer Vision, and Natural Language Processing. Skilled in building CNN models, AI chatbots, and data pipelines, with growing expertise in Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), and vector database-backed search. Seeking an AI or Data Science internship to contribute to scalable, real-world solutions.

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL (MySQL)

AI & Machine Learning: Supervised Learning, Unsupervised Learning, Neural Networks, CNNs, NLP, Model Evaluation, Hyperparameter Tuning

Generative AI & LLMs: Retrieval-Augmented Generation (RAG), Vector Databases (FAISS, Pinecone, ChromaDB), Embeddings & Semantic Search, LangChain, Prompt Engineering, LLM Fine-Tuning, Hugging Face Transformers

Frameworks & Libraries: TensorFlow, Keras, Streamlit, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, Seaborn

Tools & Platforms: Jupyter Notebook, Google Colab, VS Code, Git, GitHub, GitLab

PROFESSIONAL EXPERIENCE

Python Developer | Orbit-I pvt Ltd 2 months
Developing and maintaining Python-based applications, implementing AI-driven solutions, and collaborating with the team to deliver high-quality software products.

Data Science Intern | Syslan IT Solutions (Remote) 2025
Applied data preprocessing, feature engineering, and supervised ML model development on real-world datasets.
Conducted exploratory data analysis (EDA) and communicated findings through visual dashboards.

Java Development Intern | Code Alpha (Remote) 2024
Developed Java-based simulations and OOP applications within agile sprint cycles.
Built file-handling data persistence modules and contributed to clean code reviews.

PROJECTS

Civic Sphere – AI-Powered Civic Issue Reporting Platform | Python, Flask, AI/NLP
Built a full-stack web platform enabling citizens to report civic issues (e.g., potholes, waste, infrastructure) with photo uploads and location tagging.
Integrated an AI classification pipeline to auto-categorize complaints, estimate priority, assign the relevant department, and generate a service summary, with complaint tracking via a unique ID.

CV Intelligence – AI-Based Resume Screening System | Python, Streamlit, SQLite, NLP
Developed an AI-powered resume screening platform to classify resumes by domain, calculate confidence scores, enable HR manual review, generate offer letters, and support batch resume processing with an intuitive user interface.

Heart Disease Prediction Model
Built a supervised ML classification model on a cardiovascular dataset to predict heart disease likelihood.
Executed full pipeline: data preprocessing, feature analysis, model selection, and evaluation metrics.

Finance Literacy Mobile App | Llama 3
Developed a mobile budgeting and expense-tracking app with a Llama 3-powered chatbot for personalized financial guidance.

Grammar Guard AI Chatbot | Python, NLP, Hugging Face
Developed a rule-constrained NLP chatbot focused exclusively on grammar-related Q&A using strict prompt restriction techniques.
Integrated a lightweight conversational memory module for context-aware, consistent responses.

CNN Student Image Classification System | TensorFlow, Keras
Built and trained a Convolutional Neural Network on 2,500 images across 5 student identities with reliable multi-class classification accuracy.
Performed image preprocessing, data augmentation, model training, and performance evaluation.

EDUCATION & CERTIFICATIONS

B.E. in Software Engineering **Mehran University of Engineering & Technology (MUET)** 2024 – 2028
AI & Data Science Certificate 2025
Python Development Certificate Sep – Dec 2025

Google AI Essentials	Coursera, Completed
Software Architecture	Coursera, Completed

SOFT SKILLS

Leadership | Technical Documentation & Presentation | Team Collaboration | Adaptability