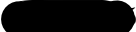


FAREHA ASLAM

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EXPERIENCE

Developer Team , Department of Computer Engineering, Jamia millia islamia

Oct 2025 - Present

Enhancing and maintaining the official department website, adding new features and content updates.

PROJECTS

gUrrT : Local First Video Intelligence Engine

Co-developed in a 2-person team

Link: <https://pypi.org/project/gurrt/>

Tech Stack: Python, CLIP, BLIP, Faster-Whisper, Ollama, Vector DB, LLMs

- Engineered a local-first video retrieval pipeline integrating scene-based frame sampling, captioning, ASR transcription, and semantic indexing
- Implemented multimodal embeddings using CLIP, BLIP, and Faster-Whisper.
- Enabled dynamic inference via locally installed Ollama models with optional cloud fallback (Llama 3-70B via Groq)
- Delivered cloud-comparable performance fully offline; achieved **793 downloads within 24 hours of launch**

Phishing Website Detection System (End-to-End MLOps Pipeline)

https://github.com/farehaaslam/network_security

Tech Stack: Python, scikit-learn, MLflow, FastAPI, MongoDB, Docker, AWS (S3, ECR, EC2), GitHub Action

- Built a **production-grade end-to-end MLOps pipeline** (ingestion validation transformation training deployment) with **MLflow (DagsHub)** for experiment tracking and model versioning
- Developed a **FastAPI inference service** for real-time and batch predictions; containerized with Docker and deployed via **CI/CD (GitHub Actions AWS ECR EC2)**
- Automated **retraining pipelines (cron jobs)** and managed **model artifacts on AWS S3**

Local Voice AI Agent

https://github.com/farehaaslam/voice_agent

Tech Stack: Python, Ollama, LLaMA 3.1, Faster-Whisper

- **Architected a 100% offline, three-stage AI pipeline** (Transcribe Classify Act) capable of executing local file operations and code generation entirely from voice command
- **Implemented structured tool-calling** using LLaMA 3.1 via Ollama to dynamically map user intent to automated file operations and code generation tasks.
- **Designed a full-stack web UI** with Gradio that features live processing states, streaming audio uploads,

Code tracker

Link:<https://codetracker-khaki.vercel.app/>

Tech Stack: React, ShadCN UI, Recharts, Tailwind CSS, Node.js, Express.js, MongoDB, Mongoose, JWT, Refresh Tokens

- Developed a MERN-stack web application to track code submissions
- Designed an interactive dashboard using ShadCN UI and Recharts to visualize daily progress and coding consistency
- Implemented secure authentication using JWT and refresh token mechanisms

EDUCATION

B-Tech , computer engineering

Aug 2023 - Present

Jamia Millia Islamia

SKILLS

Programming Languages: C, C++,Python

AI-ML : AI/ML:LangChain.js, OpenAI SDK, NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Flask

MLOps & cloud : MLflow, FastAPI, Docker, Amazon ECR, GitHub Actions (CI/CD), AWS EC2, AWS S3

Web development: HTML5, CSS3, tailwind , React , zustand, Node.js , Express.js, REST API, JWT

Database: MongoDB, MYSQL,QuadrantDB

Tools and environment: Git ,Github,postman,Jupyter Notebook,Docker ,ollama

CORE CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems

Soft skills: Problem-solving, Teamwork, Communication,, Time management, Adaptability, Leadership

Achievements

solved 500+ data structure and algorithm questions cross platform

<https://codolio.com/profile/fareha>