Khaja Moinuddin Shaik Mohammed

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EDUCATION

Mahatma Gandhi Institute of Technology   Oct 2022 – Expected: Jul 2026
Bachelor of Technology in Computer Science (AI & ML)   *Hyderabad, TG*

RELEVANT COURSEWORK

Deep Learning | NLP | Computer Vision | Data Structures & Algorithms | Machine Learning | Software Engineering | Statistical Learning | Operating Systems | Computer Networks | Compiler Design

SELECTED PROJECTS

DocuLens AI (In Progress) | *React, FastAPI, Celery, PostgreSQL, Redis, Caddy* [GitHub]   Jun 2025 – Present
- Architecting a lightning-fast document automation system using FastAPI, Celery, and PostgreSQL — enabling async workflows, embedding storage, and scalable multi-user support.
- Using Redis as a task queue broker for real-time background processing; integrated Caddy for secure reverse proxy and automatic HTTPS.
- Combining six NLP and OCR tasks (QA, Classification, Image-to-Text, Summarization, Retrieval, Feature Extraction) via modular Hugging Face pipelines & Docling
- Designing an OCR-enhanced UI with React and Tailwind CSS to improve non-technical user efficiency through real-time previews and error correction.

EcoGuardian AI | *Python, React Native, TensorFlow Lite, Appwrite* [GitHub]   March 2025
- Engineered a real-time mobile AI app for waste classification using a custom CNN model, achieving on-device inference under 300ms with 82% accuracy.
- Optimized TensorFlow Lite model for offline usage, reducing prediction latency and model size, which improved app performance and user experience.
- Implemented gamified interaction loops that boosted daily active user retention by 25%, enhancing long-term engagement and behavior change.
- Built a modular backend using Appwrite to manage secure user authentication, database integration, and future feature extensibility.

Indie AI | *Python, Streamlit, Whisper, AWS Translation* [GitHub]   Feb 2025
- Developed an AI-powered subtitle generator supporting 6 major Indian languages, enhancing content reach for multilingual viewers across diverse demographics.
- Achieved 90% transcription accuracy on 100+ hours of content, elevating subtitle quality and viewer comprehension in multilingual markets.
- Automated subtitle production workflow with Whisper and AWS Translation, slashing manual editing time by 70% and accelerating publishing cycles.
- Implemented secure file handling and AWS credential management, increasing platform adoption by creators prioritizing data privacy.

TECHNICAL SKILLS

Languages: Python, Java, SQL, TypeScript
Frameworks & Libraries : FastAPI, Celery, PyTorch, TensorFlow, Streamlit, Hugging Face Transformers
Databases : PostgreSQL, Redis, MongoDB
Developer Tools: Git, Docker, VSCode, Postman, Weights & Biases
Cloud & Data Tools : AWS (S3, SageMaker, Translate), Seaborn, Matplotlib
CP Profile: 120+ LeetCode problems solved. Focus: Arrays, Graphs, DP

LEADERSHIP & INITIATIVES

Founder, EditMagnet   Nov 2024 – Present
Open Source Contributor (WIP), TensorFlow & Hugging Face   Jun 2025 – Present
Freelance Video Editor: 150+ clients, 1M+ views (YouTube, Netflix/Hulu/Prime)   Nov 2021 – Present
Silver Medalist, Student Olympic National Games (Doubles)   Jul 2018