



## Sheikh Galib

Brahmanbaria, Bangladesh

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## Summary

Results-driven Machine Learning Engineer with **6 months of hands-on experience** in a fast-paced startup environment. Expertise in designing, developing, and deploying AI/ML solutions, with a strong focus on **Large Language Models (LLMs)**, **prompt engineering**, **computer vision**, and **edge device deployment**. Proficient in Python, LLM RAG systems, and productionizing models on platforms like Raspberry Pi and Orange Pi. Seeking to leverage a diverse project background to build impactful AI solutions.

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## Experience

Machine Learning Engineer @ TransformsAi | Remote

Nov 1, 2024 – Present

- **Hajj 2025 Project:** Architected and deployed an AI-driven edge computing system on **over 400 Raspberry Pi and Orange Pi devices** to enhance safety and services.
  - Optimized and converted computer vision models (Ultralytics) from **.pt** to **ONNX and specific edge device formats (.HEF for Hailo and .RKNN for Orange Pi)**, overcoming significant documentation challenges.
  - Engineered and automated a robust deployment and management system using **a Python Command Line Interface (CLI)** to manage code updates and monitor device status over SSH.
  - Developed and troubleshooted complex **bash scripts** to handle automated setup, dependency installation, and system cleanup across multiple Linux distributions.
- **MediNote AI:** Developed an AI solution to automate medical note-taking for doctors, adhering to the **SOAP standard**.
  - Designed and built an end-to-end audio processing pipeline using **WhisperX** for Automatic Speech Recognition (ASR) and **pyannote** for speaker diarization.

- Utilized **prompt engineering** and an **Ollama-based LLM RAG system** to accurately identify doctor and patient speakers, analyze medical conversations, and generate fact-based medical notes.
- Created a production-ready **FastAPI endpoint** to serve the ASR and diarization pipeline, providing real-time speaker-identified transcripts.
- **GRC Management Software:** Contributed to an LLM-powered solution for Governance, Risk, and Compliance (GRC) document analysis.
  - Prompt engineered a **Llama 3.1-based RAG system** to analyze complex GRC documents, compare different policies, and auto-fill information.
  - Curated and formatted knowledge bases and templates (e.g., ISO standards) to provide context and improve the accuracy of LLM responses.

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## Technical Skills

- **Programming Languages:** Python, Bash, C, C++
- **Machine Learning/AI:** Deep Learning, LLMs (Llama, Hugging Face), Computer Vision, NLP, Prompt Engineering, RAG Systems
- **Frameworks & Libraries:** PyTorch, TensorFlow, Scikit-learn, OpenCV, FastAPI, Gradio, Ultralytics, WhisperX, pyannote
- **Tools & Platforms:** Git, SSH, Docker, Ollama, Hailo AI, Raspberry Pi, Orange Pi, Ubuntu, Debian

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## Education

Computer Science and Engineering | KUET | Khulna, Bangladesh

Expected Graduation: Feb 2027

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