

GOLAM ROBBANIE

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OBJECTIVE

AI Engineer with production experience in NLP, LLM, and scalable backend architecture. Proven ability to build end-to-end ML pipelines with focus on performance optimization and cloud deployment.

PROFESSIONAL EXPERIENCE

AI Engineer Intern — *ESAP AI* — *September 2025 - Present*

- Architected production meeting analysis pipeline with AssemblyAI, Groq Whisper, and Google Gemini integration
- Deployed full-stack application on Render with FastAPI backend, Streamlit frontend, and PostgreSQL database
- Implemented automated CI/CD, environment-based configuration, and database migrations with SQLAlchemy ORM
- Built modular async pipeline with real-time progress tracking and multi-language support (Arabic/English)
- **Tech Stack:** Python, FastAPI, AssemblyAI, Groq, Gemini API, PostgreSQL, Streamlit, Render, llama.cpp

TECHNICAL SKILLS

Programming: Python, C, C#, JavaScript — **Web:** FastAPI, Streamlit, React, HTML

AI/ML: NLP, LLM Integration, Prompt Engineering, TensorFlow, llama.cpp

Database: PostgreSQL, SQLite, SQLAlchemy, MySQL — **AI Services:** AssemblyAI, Groq, Gemini

DevOps & Tools: Render, CI/CD, Git, Docker, Google APIs, REST APIs

PROJECTS

Goal Planner App — *Co-developed Project* — *May 2025*

GitHub: github.com/Golam-Robbanie-Sajib/goal-planner-app — **Live:** cloudflare-planner-app.pages.dev

- Co-developed web-based planner for learning goals and progress tracking
- Implemented Google Calendar integration, LLM chat/plan generation, Google Authentication, and Firebase
- **Tech Stack:** JavaScript, React, Google Calendar API, Gemini LLM, Firebase

Ultra Low Latency Voice Assistant — *Real-time AI Project* — *August 2025*

Live: ullva-nine.vercel.app

- Developed real-time voice assistant with ultra-low latency response capabilities
- Implemented advanced voice processing and AI-powered conversational interface
- **Tech Stack:** Pipecat, RTVI, FastAPI, React, Next.js, Gemini Live

Audio Summarization System — *Final Year Project* — *August 2025*

GitHub: github.com/Golam-Robbanie-Sajib/STTS

- Developing intelligent audio content summarization system using NLP and machine learning
- Implementing speech-to-text conversion and text summarization with deep learning models
- **Tech Stack:** Python, NLP libraries, TensorFlow

EDUCATION

Bachelor of Science in Electrical and Electronic Engineering — *January 2020 - August 2025*

University of Chittagong — **Relevant Coursework:** NumPy, Pandas, Matplotlib, MATLAB, Data Structures, Programming, Algorithms

Masters of Science in Electrical and Electronic Engineering — *September 2025 - present*

University of Chittagong — **Relevant Coursework:** Transistor Design, Photonic IC design

CO-CURRICULAR ACTIVITIES

General Secretary — *IEEE Student Branch, University of Chittagong* — *January 2025 - Current*

Webmaster — *IEEE Student Branch, University of Chittagong* — *April 2023 - January 2025*