# Uday bheema

AI & ML Engineer

✉udaybheema337@gmail.com    📞 7995972776   📍 Bangalore,India   Github   in LinkedIn

## PROFILE

A passionate and results-driven **AI&ML and full-stack development** with hands-on experience building real- time, scalable applications and **AI-Integrated applications** using **python, Flask, TensorFlow and PostgreSQL**. Developed and deployed production-ready systems that improved process efficiency. Proven ability to design secure APIs, integrate AI-driven modules, and solve complex problems through structured coding and data- driven approaches.

## EDUCATION

**B.E (Computer Science and Engineering)**                                          Graduation: 2026
*Bangalore Technological Institute ( BTI )*                                              Bangalore

**Coursework:** OS**,** OOPs, Data Structures, Advanced Python, DBMS.

**PUC**                                                                                      06-2020 – 05-2022
*NRI college*                                                                                 Andra pradesh
Percentage – 85.00%

## SKILLS

**Languages** :  Python, HTML, CSS, Javascript

**Tech:** Web Development, OOP, DSA, Flask, Git

**Database:** MySql, PostgreSQL, SQL.

**Soft Skills**: Teamwork, Technical Presentation & Reports, Critical Thinking, Communication.

## PROJECTS

**Real-Time Sign Language Translation Video App**

*Python (FastAPI), WebSockets, JavaScript, WebRTC, scikit-learn.*

- Engineered a web-based video call application featuring real-time sign language to text translation. Developed a Python (FastAPI) backend that uses WebSockets for signaling and to process video data through a pre-trained scikit-learn model (sign_model.pkl). The JavaScript frontend uses WebRTC for peer-to-peer video streaming and displays the live translated captions, enhancing accessibility for users.

**ZORO – Hybrid Voice Assistant**

*Python, Ollama (LLaMA 3), OpenAI GPT-4, Tkinter, SpeechRecognition, Pyttsx3*

- Built an intelligent voice assistant that operates offline using local LLMs via Ollama, with automatic fallback to OpenAI's GPT-4 when internet is available. Features include real-time voice recognition, natural text-to-speech, app automation, web search, multimedia playback, and a dynamic Tkinter GUI. Designed for privacy, productivity, and extensibility with modular architecture and smart command handling.

## CERTIFICATION

- Python Development – Udemy (2024)
- JavaScript for Beginners – Udemy (2024)