

# AMOGH BIRADAR

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## Education

### VIT Bhopal University

Bachelor of Technology (B.Tech) in Computer Science and Engineering

Cumulative GPA: 7.82 / 10.0

Bhopal, Madhya Pradesh

Expected May 2026

## Technical Skills

**Languages:** Python, C++ , Java, HTML, CSS, JavaScript, SQL

**Technologies:** Machine Learning, Data Science, Artificial Intelligence, Natural Language Processing (NLP), OpenCV

**Frameworks & Tools:** Flask, Tkinter, Git, Microsoft Azure, Power BI, Chart.js

**Core Competencies:** Data Structures Algorithms, Cloud Computing, REST APIs, GUI Development, Version Control

## Project Experience

### AI-Powered Health Chatbot

Tech Stack: Python, NLP, Flask, JavaScript, Chart.js, Groq LLM

Jul 2024 – Apr 2025

- Developed an NLP-driven health chatbot with Meta's Llama 3 to provide instant medical guidance to users in remote areas.
- Trained the model on a 5,000+ medical query dataset, achieving 85% intent recognition accuracy.
- Designed a user-friendly UI with Flask and JavaScript, reducing session drop-offs by 30%.
- Implemented dynamic visualizations with Chart.js for tracking user health trends and symptoms.

### Sanskrit Text-to-Speech (TTS) System

Tech Stack: Python, Machine Learning, Google Translate API, Microsoft Azure

Feb 2024 – May 2024

- Developed a 3-model ML pipeline for natural language understanding and Sanskrit-to-Roman transliteration.
- Achieved 90% accuracy in Sanskrit TTS synthesis using AI voice models on Microsoft Azure.
- Contributed to a 29-member team by developing the core module for speech synthesis from text.
- Utilized Azure and Google APIs for scalable, cloud-based NLP and multilingual support.

### Face Detection & OCR System

Tech Stack: Python, OpenCV, MySQL, Tkinter, Tesseract-OCR

Aug 2023 – Oct 2023

- Built a facial recognition system with 95% accuracy by training an OpenCV model on a 13,000+ image dataset.
- Improved system performance by 3% through algorithm optimization and image pre-processing.
- Designed a GUI with Tkinter and implemented a secure MySQL backend for data management.
- Integrated an OCR module to extract text, improving data entry functionality by 30%.

## Certifications & Achievements

- Competed in FOSSHack 2024, developing a prototype in a 48-hour timeframe.
- Complete AI, Machine Learning Data Science Bootcamp (Udemy)
- Introduction to MATLAB and Simulink (MathWorks)

## Languages

English (Fluent), Hindi (Fluent), Kannada (Native), Marathi (Conversational), French (Beginner)

## Extracurricular Activities

- Sports:** Active member of the University Football team; also play Cricket and Badminton.
- Dance:** Member of the University Dance Club, specializing in Western Bollywood styles.
- Drama:** Member of the Ekfrasies Drama Society, participating in stage productions.