

AMOGH BIRADAR

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Education

VIT Bhopal University, Bhopal, Madhya Pradesh
Bachelor of Technology (B.Tech) in Computer Science and Engineering
CGPA: 7.82 / 10

Expected: May 2026

Technical Skills

Languages: Python, C++, Java, HTML, CSS, JavaScript, MySQL

Technologies/Tools: Machine Learning, Data Science, Artificial Intelligence, NLP, OpenCV, OCR, Git, Tkinter, Azure, Power Bi

Core Skills: Data Structures & Algorithms, GUI Development, Cloud Computing, Team Collaboration, Version Control

Project Experience

Face Detection & OCR System

Aug 2023 – Apr 2024

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

- Developed a facial recognition system with 95% accuracy using OpenCV and 13,000+ image dataset.
- Improved system performance by 3% through algorithm optimization and image pre-processing.
- Designed a GUI with Tkinter and implemented secure MySQL backend for data management.
- Integrated Optical Character Recognition (OCR), improving functionality by 30%.

Natural Language Processing & Sanskrit Text-to-Speech

Jul 2023 – May 2024

Tech Stack: Python, ML, Google Translate API, Microsoft Azure

- Built 3 Python-based machine learning models to support natural language understanding.
- Achieved 90% accuracy in Sanskrit Text-to-Speech using transliteration and AI voice models.
- Collaborated with a 29-member team to develop accurate speech synthesis from textual input.
- Used Microsoft Azure and Google APIs for cloud-based NLP processing and multilingual support.

AI-Powered Health Chatbot

Jul 2024 – Apr 2025

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

- Developed an intelligent health chatbot using NLP to provide users with instant, preliminary medical guidance targeting remote areas.
- Trained Meta's Llama 3.3 model on a dataset of 5000+ medical queries, achieving an 85% intent recognition accuracy.
- Designed an intuitive and accessible user interface, leading to a 30% reduction in user session drop-offs.
- Implemented dynamic data visualizations with Chart.js to display health trends and symptom tracking for users.

Achievements and Certifications

Participated in FOSSHack 2025,
Introduction to MATLAB and Simulink (MathWorks),
Complete AI, Machine Learning & Data Science Bootcamp (Udemy)

Languages

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

Interests & Extracurriculars

- Sports: Football (University team), Cricket, Badminton.
- Dance: Member of the University Dance Club – Western & Bollywood styles.
- Drama: Member of the Ekfrasies Drama Society.