

# 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

## Project Experience

### Face Detection & OCR System

Aug 2023 – Apr 2024

Tech Stack: Python, OpenCV, MySQL, Tkinter, OCR | Team Size: 5

- 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 preprocessing.
- 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 | Team Size: 3

- 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.

## Technical Skills

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

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

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

## Certifications

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 Ekfrases Drama Society