

# Vasu Chourasia

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## EDUCATION

### B.Tech in Computer Science and Engineering (CSE) | VIT Bhopal University

Sep 2023 – Jul 2027 | GPA: 8.62/10

## CORE TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), Java, Python

**Frontend:** React.js, HTML5, CSS3, TailwindCSS

**Backend:** Node.js, Express.js

**Databases:** MongoDB, MySQL

**Tools & Other:** Git & GitHub, REST APIs

## PROJECTS

### VITMEDS - University Health & Appointment Management System

A web-based platform to streamline appointment booking, digital prescriptions, and disease prediction within the university.

**Tech Stack:** Python, Flask, MongoDB, Random Forest ML, HTML, CSS, JS, REST APIs.

- Developed **role-based authentication and authorization** for doctors and patients.
- Built the **digital prescription module** with a responsive UI for patients to view and doctors to update prescriptions.
- Implemented an **emergency appointment workflow** with automated email notifications.
- Integrated a **symptom-based disease prediction model**, enhancing clinical decision support.

### AI-based Deepfake Detection Website

A web app to detect deepfake videos by analyzing uploaded media using AI and computer vision.

**Tech Stack:** Python, Flask, TensorFlow, MongoDB, OpenCV, HTML, CSS, JS.

- Designed and implemented the **frontend upload and analysis interface** for users to submit videos.
- Built **backend APIs** for media preprocessing and inference using TensorFlow models.
- Applied **transfer learning on Xception Net**, improving detection accuracy.
- Connected the web app with **database-driven storage and retrieval** for user queries and results.

## EXTRA-CURRICULAR AND ACHIEVEMENTS

### Tata Imagination Challenge – Participant (2024)

- Proposed an AI based solution for deepfake video detection.

### College Annual Sports Fest – Chess Tournament

- Qualified in Intercollegiate Chess Tournament (Annual Sports Fest).

## CERTIFICATIONS

- **The Bits and Bytes of Computer Networking-** Coursera
- **LangGraph and LangChain with Ollama-** Agentic RAG- Udemy
- **Fundamentals of AI and ML-** Vityarthi