

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

Programming: Java, JavaScript, Python

Databases: MongoDB, MySQL

Web: HTML, CSS, REST APIs

Other: Git, Debugging & Troubleshooting

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.

- Designed and implemented a **role-based authentication system** for doctors and patients using Flask and MongoDB.
- Built the **digital prescription module**, enabling doctors to prescribe and patients to access medicines online.
- Developed the **emergency booking workflow** with automated email notifications via REST APIs.
- Integrated a **symptom-based disease prediction model**, improving diagnosis efficiency for minor illnesses.
- Result:** Improved **doctor-patient interaction** and reduced appointment delays within the university clinic.

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, OpenCV, HTML, CSS, JS.

- Implemented a **transfer learning pipeline on Xception Net**, replacing the classification layer to adapt for deepfake detection.
- Built the **web upload and analysis interface** using Flask and JavaScript, allowing users to upload videos for evaluation.
- Integrated **OpenCV preprocessing** to standardize frames and improve model input quality.
- Result:** Provided an **accessible platform for media verification**, showcasing practical AI application against misinformation.

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