

# Hitanshu Yadav

hitanshuyadav04@gmail.com | +91-7355317646 | GitHub | LinkedIn

## EDUCATION

### VIT Bhopal University

B.Tech in Computer Science and Engineering — CGPA: **8.61/10**

Bhopal, India

2022 – May 2026

## TECHNICAL SKILLS

- **Languages:** Python, Java, C++, C, JavaScript, SQL
- **Web Development:** HTML5, CSS3, Bootstrap, RESTful APIs, Tailwind CSS
- **Full Stack:** MERN (MongoDB, Express.js, React.js, Node.js)
- **Machine Learning:** Scikit-learn, TensorFlow, Keras, NLP, OpenCV
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Tools & Platforms:** Git, GitHub, Postman, VS Code, Figma, Firebase Auth, JWT, AWS (EC2, S3), Vercel, Render
- **Practices:** Agile, GitFlow, CI/CD (Render, GitHub Actions), Unit Testing (PyTest, Jest)

## PROJECTS

### MediTalk — AI Health Assistant

Tech Stack: FastAPI, React (TS), HuggingFace, Tesseract OCR, gTTS

- Built a multilingual AI assistant that enhanced clarity of medical documents for **100+ users** using OCR + NLP.
- Implemented **BART** for summarization; increased user comprehension rates by **30%**.
- Integrated voice-based feedback in **5+ languages**, reducing onboarding time by **40%**.  
esumelItemReduced manual lookup time for patients by implementing a Q&A model trained on 1k+ medical queries.

### AgroSphereX — AI-Powered Farming Platform

Tech Stack: React + Vite, FastAPI, Ollama, SQLite, OpenWeatherMap, Agmarknet, Whisper API

- Developed 5+ AI-driven tools (e.g., KrishiMitra, BazaarBot), raising rural engagement by **25%**.
- Used Whisper API for multilingual voice input; cut form-filling friction by **40%**.
- Boosted seasonal forecast accuracy by **18%** via LangChain + weather API insights.  
esumelItemUtilized SQLite for persistent agent memory, supporting long-term farming recommendations.

### Doctor's Aid — Hospital Automation System

Tech Stack: Django, React.js, MySQL, REST API, Scikit-learn

- Managed **500+** secure patient profiles with RBAC-enabled dashboards and REST APIs.
- Refined scheduling workflows, resulting in **35%** shorter average wait times.  
esumelItemEnabled real-time monitoring of appointments and reports, boosting administrative efficiency by 22%.
- Deployed predictive ML models:
  - **Diabetes:** Stacking Ensemble achieving **77.27% accuracy**; enhanced early diagnosis efficiency by **15%**.
  - **Heart Disease:** ANN reaching over **90% accuracy**.

## CERTIFICATIONS

- Machine Learning Specialization — Stanford (Coursera)
- Google Cloud — AI, Prompt Engineering & Generative AI

## ACHIEVEMENTS

- Built **10+ open-source projects** — AgroSphereX, MediTalk, Flight Finder, Mausam.
- Solved **250+ LeetCode problems** — Rating: **1496**, Top **45.31%** globally.