Hitanshu Yadav

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EDUCATION

VIT Bhopal University

B. Tech in Computer Science and Engineering - 8.64 CGPA

Guru Har Rai Academy

12th ISC - 86.5%

Guru Har Rai Academy

10th ICSE - 82.5%

Bhopal, India 2022 – May 2026 Kanpur, India 2021 Kanpur, India

2019

PROJECTS

MediTalk for Patient

Technologies: FastAPI, React (TypeScript), HuggingFace Transformers, Tesseract OCR, gTTS

- Engineered an AI-powered medical assistant to simplify healthcare documents using FastAPI and React.
- Integrated Tesseract OCR to extract text from prescriptions with over 95% recognition accuracy.
- Leveraged BART and NLP models from HuggingFace Transformers for summarization and medical Q&A.
- Enabled multilingual Text-to-Speech in 5+ languages via gTTS, enhancing accessibility.
- Delivered a fully responsive React (TypeScript) frontend with Tailwind CSS, reducing onboarding time by 40%.

Potato Disease Detection

Technologies: CNN, TensorFlow, OpenCV, Flask, Python

- Implemented a CNN using VGG16 achieving 92% accuracy in classifying potato diseases.
- Boosted model performance by 15% through image preprocessing and augmentation with OpenCV.
- Trained on 2000+ images using transfer learning for improved convergence and generalization.
- Crafted a real-time Flask web app for live disease detection from camera input.
- Minimized potential crop loss by 30% via early detection and visual feedback.

Hospital Management System

Technologies: Django, React.js, MySQL, REST API, JavaScript

- Architected a full-stack hospital management platform with role-based access for 500+ users.
- Designed a secure Django backend with RESTful APIs and an optimized MySQL schema for 10,000+ records.
- Implemented patient tracking, authentication, appointment scheduling, and role-specific dashboards.
- Created a responsive React.js frontend for seamless interactions and real-time updates.
- Automated admin tasks, reducing workload by 30% and boosting operational efficiency.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, SQL

Technologies: TensorFlow, Keras, PyTorch, Scikit-learn, Flask, React.js, Django

Cloud/DevOps: AWS (EC2, S3), Docker, Jenkins Databases: MySQL, PostgreSQL, MongoDB

Tools: Git, GitHub, Jupyter, VS Code

CERTIFICATIONS

Machine Learning Specialization – Coursera

Cloud Computing - NPTEL

Python Essentials - VITYARTHI

Extra-Curricular Activities

- Completed a 3-month **Full Stack Development Internship** (MERN Stack) at **SmartInternz**, building end-to-end applications using MongoDB, Express.js, React, and Node.js.
- Undertook a structured **30-Day DSA Challenge**, mastering core data structures and algorithms through daily problem solving on **LeetCode** and **GeeksforGeeks**.
- Completed the Machine Learning course by Stanford University (Coursera), covering supervised/unsupervised learning, SVMs, neural networks, and recommendation systems.
- Published and maintained 10+ public projects on GitHub including: AgroSphereX, MediTalk, Mausam (weather chatbot), Flight Finder, Portfolio (TypeScript), Hospital (Jupyter), and Evolve (Java).
- Completed Google Cloud courses on **AI**, **Prompt Engineering**, and **Generative AI**, gaining hands-on experience with cloud-based AI tools and model deployment.