

VIBHUTI PUROHIT

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EDUCATION

Vellore Institute of Technology

Integrated MTech in Artificial Intelligence CGPA: 9.14

Bhopal, India

Sep 2022 - ongoing

PROJECTS

Neurotask: | Python, Machine Learning, Artificial Intelligence

January 2025 – April 2025

- Developed an AI file organizer using LLMs to automate directory structuring based on content.
- Engineered a semantic analysis engine to perform granular content scanning across entire file directories, identifying complex relationships and thematic patterns to inform intelligent sorting.
- Deployed a dynamic folder creation algorithm using LLM APIs to automatically generate semantic-based hierarchies, replacing manual sorting and improving overall file discoverability.

SkySentinel Project | Python, Machine Learning, Drone Technology

October 2024 – June 2025

- Developed an Autonomous Drone System: Designed and implemented a scalable, cost-effective solution for real-time fire detection to enhance community safety in Astha, Madhya Pradesh.
- Optimized Drone Operations: Contributed to flight route planning, zonal coverage design, and topographical data analysis to maximize surveillance efficiency and avoid obstacles.
- Integrated Machine Learning: Collaborated with a team to deploy ML models for precise fire detection and real-time alerts to local authorities.

VIT Effective Calendar | HTML, JavaScript

March 2024 – May 2024

- Developed an Interactive Web Calendar: Designed and built the front-end of a web-based calendar application with dynamic features like event creation, categorization, and task reminders using JavaScript.
- Ensured Cross-Platform Compatibility: Focused on responsive design to deliver a seamless user experience across devices and browsers.
- Optimized User Interface: Enhanced usability for efficient task tracking and improved user engagement.

SKILLS

Languages: Java, Python, SQL

Developer Tools: VS Code, Visual Studio, Google Collab Platform, Git, Github

Other Expertise: Data Structures and Algorithm, Object - Orientated Programming, Fundamentals of Artificial Intelligence and Machine Learning

CERTIFICATIONS

Coursera: Applied Machine Learning in Python

Dec 2022

NPTEL: Cloud Computing (Elite + Silver Certificate)

Dec 2023

ACHIEVEMENTS

- Qualified in Google Girl hackathon'24 up to second round, Participated in L'Oreal Brandstorm'24 and Nestle E-learning competition
- Participated in MernXAI hackathon in college
- Reached Semi-finals of dance competition in IIT-B, cleared finals in dance competition for IIT-I to reach Hip-hop championship
- Semi-finalist in AAVHAN'23 Badminton championship

EXTRACURRICULAR

Secretary, iOS Club

Dec 2022 – Present

- Organized events like Game-Flix, Sampurna, and Techastra, engaging over 1000 students in iOS development

Senior Student Coordinator, Dance Club

Dec 2022 – Present

- Successfully coordinated and performed in college and inter-college events, including talent shows and championships.

AdvITYa Guest Management Team

Feb 2025

OTHERS

Languages: English, Hindi, French

Hobbies: Sketching, Dancing, Badminton, Poetry Writing