

VINAYAK PALSE

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Currently pursuing **B.Tech in the second year at Vishwakarma Institute of Technology, Pune**. I have worked on several college-level projects, showcasing my proficiency in full-stack web development, particularly with MySQL and backend integration. I have a strong foundation in problem-solving, and I'm skilled at developing efficient and scalable web applications. I'm actively learning **Data Structures and Algorithms (DSA) in Java** and applying this knowledge to build projects. I also regularly participate in **competitive programming** on various platforms to enhance my coding and algorithmic skills. Currently, I'm expanding my expertise in **Artificial Intelligence (AI), Machine Learning (ML), and Data Science (DS)**.

EXPERIENCE

Currently working on college-level projects, with a focus on developing applications using the **MERN stack**. I have recently begun participating in **national-level hackathons** to enhance my practical exposure and problem-solving abilities. In addition to web development, I am actively creating projects in **Artificial Intelligence (AI), Machine Learning (ML), and Data Science (DS)**. I am also strengthening my core programming skills by learning **Data Structures and Algorithms (DSA) in Java**.

SKILLS

Languages : HTML/CSS,Python,C/C++, Java ,MySQL,JavaScript
Frameworks : React

Databases : MySQL
Tools : GitHub

EDUCATION

vishwakarma institute of technology,Pune

2023-Present

Bachelor of Technology in Artificial Intelligence and Data Science

CGPA: 8.86/10

CERTIFICATIONS

completed C++

Completed the basic C++ programming course on sclar.

Complete DSA in C

Completed the basic DSA in C language on sclar.

EXTRA-CURRICULAR

The Social Welfare Development Committee (SWDC) at VIT is actively involved in two key initiatives:

Go-Green and Police Mitra. The Go-Green initiative focuses on tree plantation, while Police Mitra works to manage crowd control during the Ganpati festival. I have received certificates for both of these contributions.

PROJECTS

Canteen-Crave:

2023-2024

Front-End developer

- This is the group project in which i worked as frond-end developer.
- we have made the website for collage canteen so that student and staff can pre-order their food at what time they want or available at that destination.
- For this project we have used the technologies HTML,CSS,JS, NODE-JS,BOOTSTRAP,MY-SQL.
- On this project we have published the research paper in the scopes

Flight Route Optimization System:

2024

Data Structures and Algorithms Implimented

- Shortest Path Finder Using **Dijkstra's Algorithm**: Developed a flight route optimization tool that takes user input for source and destination cities and computes the most efficient path using Dijkstra's algorithm based on distance or time.
- Interactive Visualization with **Google Maps API**: Integrated Google Maps API to dynamically plot and visualize the optimized flight route, offering users a clear and intuitive map-based view of their journey.
- Tech Stack: Java, Google Maps API, gmplot, Matplotlib.

AI-Based Question Paper Generator:

2024-2025

Python Developer

- This is an group project where I developed an AI-based system to generate question papers using a university database.
- The system selects questions based on difficulty levels and topic distribution, ensuring balanced papers.
- It utilizes AI models like LLaMA API and GPT-Neo API to rephrase theoretical questions and modify numerical values dynamically.
- Technologies used: Python, NumPy, Pandas, and various APIs for AI-based processing.