

VINAYAK PALSE

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ABOUT ME

Currently pursuing B.Tech in the third 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 am skilled at developing efficient and scalable web applications. I'm actively learning **Data Structures and Algorithms (DSA) in Java** and have solved 200+ problems on LeetCode, regularly participating in weekly coding contests to sharpen my algorithmic thinking. Currently, I'm expanding my expertise in **Artificial Intelligence (AI), Machine Learning (ML), and Data Science(DS)**.

EXPERIENCE & INVOLVEMENT

Participating in **national-level hackathons**, focusing on **AI-integrated** and **DSA-oriented projects**.

Core contributor to the Social Welfare Development Committee (SWDC) at VIT, with certifications for Go-Green (Tree Plantation) and Police Mitra (Festival Crowd Management). Shortlisted for J.P. Morgan Chase **Code for Good Hackathon 2025** – selected among top candidates from national-level applicants for technical and problem-solving excellence.

SKILLS

Languages: Java, C++, Python, C, JavaScript, HTML/CSS

Frameworks: React.js, Node.js, Express.js, Bootstrap

Databases: MySQL, MongoDB

Tools: GitHub, Git

Operating Systems: Unix/Linux (basic shell scripting, system navigation, terminal tools).

Concepts: Data Structures (Arrays, Trees, Graphs, Hash Maps), Algorithms (Sorting, Searching, Dijkstra's, Recursion), OOPs.

EDUCATION

Vishwakarma Institute of Technology, Pune

2023-Present

Bachelor of Technology in Artificial Intelligence and Data Science

CGPA: 8.8/10

CERTIFICATIONS

Java full stack development - Scaler Academy(2025-Present)

COMPETITIVE PROGRAMMING

- Solved 200+ problems on **LeetCode**.
- Regular weekly contest participant on **LeetCode / GFG**.

PROJECTS

Canteen-Crave:

2023-2024

- Front-end developer in a group project to create a canteen pre-ordering web app for students and staff.
- Enabled users to schedule food delivery/pickup based on time and location preferences.
- Published research paper related to this solution in Scopus-indexed journal.
- Technologies: *HTML, CSS, JS, Node.js, MySQL, Bootstrap*

Flight Route Optimization System:

2024-2025

- Designed an intelligent routing tool using **Dijkstra's Algorithm** to find the most efficient flight path based on distance or time.
- Visualized results using **Google Maps** for a more intuitive user experience.
- Reinforced DSA skills by handling graph data structures and shortest path logic.
- Technologies: *Python, Google Maps API, gmplot, Matplotlib*

AI-Based Question Paper Generator:

2024-2025

- Developed an AI-powered system that generates balanced question papers using a university-level question bank.
- Implemented DSA techniques such as **hash maps, shuffling, sorting**, and **filtering** to manage selection by topic and difficulty.
- Integrated **GPT-based APIs** to rephrase theoretical questions and dynamically modify numerical problems.
- Technologies: *Python, NumPy, Pandas, GPT-Neo API, LLaMA API*