

# Panav Agarwal

Bhilwara, Rajasthan — +91-7357450624 — panavagarwal1@gmail.com  
linkedin.com/in/panav-agarwal-8b07ab249 — github.com/PanavAgarwal-03 — panavagarwal.tech

## Education

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**B.Tech in Computer Science**, Vellore Institute of Technology-AP *Sept '22 – June '26*  
CGPA: 8.86

**Senior Secondary**, Central Academy *June '20 – May '22*  
Percentage: 82.6%

## Technical Skills

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**Languages:** Java, Python, C, JavaScript, HTML, CSS, SQL

**Tools & Technologies:** MySQL, Git, OpenCV, Linux, NLTK

**Core Concepts:** OOP, DSA, Low-level Design, File I/O, Exception Handling, AI, Machine Learning, NLP, Computer Vision

## Projects

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**HackNest – Competitive Coding Contest Platform** *Feb '25 – July '25*  
Architected a scalable, OOP-based console application to simulate a local competitive coding environment.

- Engineered a multi-class OOP architecture for users, problems, and submissions with distinct admin/user modes.
- Utilized Java Collections for in-memory operations and file I/O for persistent storage of problems and progress.
- Designed with a modular architecture to facilitate future migration to a full-stack web application.

**Kavach – Vehicle Collision Prevention System** *Jul '23 – Nov '23*  
Developed an IoT-based vehicle safety system integrating hardware sensors with computer vision.

- Implemented real-time Drowsiness Detection (OpenCV), Alcohol Detection, and an automated emergency alert system.
- Improved detection of fatigue-related events in controlled simulations using OpenCV

**CabSense – Intelligent Cab Review Classifier** *Jan '25 – Apr '25*  
Built and fine-tuned a BERT model for multi-label classification and sentiment analysis of user reviews.

- Engineered a system to auto-categorize reviews by topic (e.g., driver behavior, app experience).
- Improved sentiment classification accuracy by 20% over baseline models by fine-tuning the model.

**Interactive To-Do List App** *Aug '24*  
Developed a dynamic, single-page task manager using vanilla JavaScript, HTML, and CSS.

- Implemented CRUD functionality, drag-and-drop reordering, and a real-time progress bar.

## Experience & Involvement

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**Tech Team Member**, Google Developer Student Club – VIT-AP *Jan '24 – Jun '24*  
Organized 5+ events, increased participation by 40%, contributed 50+ volunteer hours.

## Problem Solving Practice

Solved 300+ DSA problems on LeetCode and Coding Ninjas.