

Panav Agarwal

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Education

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

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

Tools & Technologies: MySQL, Git, OpenCV, Tailwind CSS, Linux, NumPy, NLTK, Adobe Premiere Pro, Canva

Core Concepts: OOP, DSA, File I/O, Exception Handling, AI, Machine Learning, NLP, Computer Vision

Projects

HackNest – Competitive Coding Contest Platform *Feb '25 – Present*
Java OOP-based console application simulating local DSA practice and leaderboard system.

- Designed and implemented classes like User, Problem, Submission, and Leaderboard using OOP principles.
- Supported admin and user modes: add problems, submit mock solutions, and track rankings.
- Used Java Collections and file-based storage to manage problems and progress.
- Designed as a foundation for future expansion into a full-stack web application.

Kavach – Vehicle Collision Prevention System *Jul '23 – Nov '23*
IoT-based safety system integrating sensors and computer vision.

- Implemented Alcohol Detection, Drowsiness Detection (OpenCV), Obstacle Detection, and Accident Alerts.
- Reduced fatigue-related incidents by 40% during controlled testing.

Cab-Review Sentiment Analysis *Jan '25 – Apr '25*
Review classification and sentiment detection using BERT.

- Categorized reviews into topics like driver behavior, customer support, and app experience.
- Improved sentiment classification accuracy by 20%.

Interactive To-Do List App *Aug '24*
JavaScript-based dynamic task manager with drag-and-drop.

- Features include task CRUD, priority reordering, and visual progress tracking.

Experience & Involvement

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 200+ DSA problems on LeetCode and Coding Ninjas.