

Panav Agarwal

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<https://github.com/PanavAgarwal-03>

SCHOLASTIC ACHIEVEMENTS

- Achieved Rank **3** in **International Science Olympiad**
- Achieved Rank **1** in **International Mathematics Olympiad**,

KEY PROJECTS

Kavach | *Engineering Clinics Project*

(July '23 - November '23)

- Created a **Vehicle Collision Prevention System** it has been made to enable enhanced driving safety by integrating various sensors to guide this process. This system encompasses four integral mechanisms crafted to elevate driving safety standards and transform the overall driving experience.
- **Kavach** prioritizes increased driving safety by implementing an **Alcohol Detection System, Drowsiness Detection, Obstacle Detection System, and Accident Alert System**.
- Designed and implemented a **Drowsiness Detection system** leveraging Computer Vision Technology to monitor eye activity; system successfully reduced driver fatigue incidents by 40% during initial testing phases in a controlled environment

To do List | *Software Engineering Project*

(August '24)

- Developed a dynamic and interactive **to-do list application** using JavaScript, HTML, and CSS.
- Implemented core features such as **adding, editing, deleting, and marking tasks as complete**.
- Implemented **drag-and-drop functionality** for easy task reordering and prioritization.
- Incorporated **visual cues, such as color-coding or progress bars** ,to provide a clear overview of task status and deadlines.

Cab-Review Classification & Sentiment Analysis | *Deep Learning*

(Jan '25 - April '25)

- Developed a system to classify cab booking reviews into categories such as **such as driver behavior, customer support, and app experience and more** followed by sentiment analysis (positive, negative, neutral).
- Utilized **BERT** and other transformer models for accurate text classification and sentiment detection, achieving an improvement in classification accuracy by 20%.

POSITION OF RESPONSIBILITY

Tech team member | *Google Developer Student Club , VIT-AP*

(January '24 - June ' 24)

- Coordinated and executed 5+ community engagement events for the club throughout the journey, resulting in increased attendance by 40% and generating over 50 volunteer hours that strengthened local partnerships and outreach.

EDUCATION

B.Tech Computer Science , Vellore Institute of Technology - AP
CGPA: 8.86

(Sept '22 - June ' 26)

Senior Secondary Education , Central Academy
Percentage: 82.6%

(June '20 - May ' 22)

Secondary Education , Central Academy
Percentage: 82.8%

(June '17 - May ' 20)

OTHER EXPERIENCE

- **Solved 100+ problems on LeetCode and Coding Ninjas**, demonstrating strong problem-solving skills and proficiency in algorithms and data structures.

TECHNICAL SKILLS

Languages	Python, Java, C , HTML , Latex , CSS , JavaScript
Simulation & Others	KaliLinux , Ubuntu, Numpy, Git, OpenCV, Adobe Premiere Pro, Canva

KEY COURSES UNDERTAKEN

Technical	Data Structures and Algorithm, Operating System , Software Engineering , Database Management System , Theory of Computation , Design and Analysis of Algorithms Computer Vision and Robotics , Artificial Intelligence , Machine Learning , Deep Learning , Natural Language Processing , Object Oriented Programming , Computer Networks
Mathematics	Calculus-I, Calculus-II, Discrete Mathematical Structures , Differential Equations , Applied Statistics
Physics/Chemistry	Quantum Physics , Chemistry and Environmental Studies
Others	Computer Organization and Architecture , Design Thinking , Entrepreneurship

(* courses completed by May '25)