

# DEVANSH RAI

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## EDUCATION

### VELLORE INSTITUTE OF TECHNOLOGY

B.Tech. in **Computer Science** | **8.0 GPA**

**Relevant Coursework:** Data Structures and Algorithms, Object Oriented Java Programming, Discrete Mathematics, Computer Architecture, Linear Algebra, Calculus.

INDIA

May 2027

**Eureka Club** | Bhopal, India | Core Member – Technical Team

March 2024 – Present

**IoT Club** | Bhopal, India | Core Member – Designing Team

March 2024 – Present

## EXPERIENCES

### Google Developer Group | *Student Developer*

Bhopal, India | March 2024- Present

- Participated in a mentorship initiative that linked numerous students with experts for skill-building opportunities.
- Assisted in coordinating Google tech events, contributing to the setup of various technical sessions.

### CodeDay | *Social Media Manager & Volunteer*

Seattle, WA | April 2024- Present

- Supported the execution of hackathons, engaging 2000+ high school students.
- Promoted and facilitated 50+ workshops on Python, Git, and AI transformer models, helping 300+ attendees enhance their technical skills.
- Assisted with event logistics and collaborated with sponsors to ensure smooth operations.
- Managed the social media presence of CodeDay Lucknow, growing community engagement and increasing awareness of events and initiatives.

### VIT Robotics Club | *Core Member*

Bhopal, India | February 2024- Present

- Led **robotics projects** that improved members' **practical engineering and problem-solving skills**.
- Applied experience building **autonomous** and **sensor-based robots** to effectively mentor and guide members.

## PROJECTS

### TronooMega | *Python, Java, Arduino, OpenCV* | *2<sup>nd</sup> Position- IARRC 2019- Uni. Of Waterloo*

March 2019

- Designed an Arduino-based collision avoidance system, enhancing vehicle trajectory adjustments by 25% in complex environments.
- Secured 2nd place in RoboRace at the University of Waterloo with a system detecting traffic lights and pedestrians using real-world data.
- Improved autonomous vehicle safety by integrating precise sensors, with the potential to significantly reduce road incidents.

### Moodify | *HTML, CSS, JavaScript, API Development*

- Developed Moodify, a web app that assesses user mood through a dynamic questionnaire.
- Utilized sliders and dropdowns for accurate mood evaluation.
- Integrated Spotify API to generate personalized playlists based on user mood.

Sep 2024

### GestureTune | *Python, OpenCV*

- Developed a **hand gesture-based system** for **seamless volume control** using real-time computer vision.
- Utilized **Python and OpenCV** for gesture recognition, enabling **precise, touchless interaction** with audio systems.
- Integrated **sensor technology** for detecting hand movements, ensuring **smooth and intuitive volume adjustments**.

May 2024

## HONORS & AWARDS

- Letter of Commendation, **Defense Minister of India- top 3% academic performance** nationally.
- 1st Place Robotex India- RoboSumo, 1st Place Robo War- Robotex India, 1<sup>st</sup> place TechFest Zonal 2020, 1<sup>st</sup> place- RoboRace Entente 2022, Judge's Choice IARRC 2019- **Uni. Of Waterloo**, 6th Place Techfest\_2021.

## SKILLS

- Languages** Java, C, C++, Python, Dart, Swift, HTML5, CSS3, JavaScript, MySQL
- Tools & Frameworks** Arduino, Raspberry Pi, FireBase, Flutter, OpenCV, Git, IoT, Automation
- Operating System** Linux, Ubuntu, macOS, Windows, Raspbian

