Talapaneni Varshith Chowdary

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**GitHub:** <https://github.com/TALAPANENIVARSHITHCHOWDARY>

## Skills

* **Programming Languages**: C, C++, JavaScript
* **Web Technologies**: HTML-CSS, Flask, SQL
* **Course Work:** Database Management Systems, Operating Systems, Blockchain, Data Structures

## Professional Experience Project Intern

ATDXT, Bangalore, IN

Nov 2023 – May 2024

* Devised and implemented a real-time vehicle tracking system using Raspberry Pi, GPS, GSM modules, and Real Time Clock.
* Developed a Flask-based website using the open-source library Leaflet for tracking visualization.
* Achieved a cost reduction of 30% compared to existing solutions, while maintaining high efficiency.

## Education

**BE in Computer Science and Engineering**

RV College of Engineering, Bangalore, IN Dec 2021 – Present

* GPA: 9.32

## Pre-University MPC

Sri Chaitanya Junior College, Vijayawada Jun 2019 – May 2021

* Percentage: 97.5%

## Projects

**Deep Drowsiness Detection**

* Tools: OpenCV, Matplotlib, LabelImg, Streamlit
* Engineered a YOLOv5 and PyTorch-based system to detect driver drowsiness by analysing real-time facial expressions and eye movements, achieving an accuracy of 85% in preventing accidents due to driver fatigue.

## Real Estate Management System

* Tools: Python Django, HTML-CSS, JavaScript, PostgreSQL
* Designed a comprehensive system to streamline property listings, tenant and lease management, maintenance requests, user profiles, and secure financial transactions, improving operational efficiency by 20%.

## Education Website for Government School Children

* Tools: Unity, Blender
* Developed AR models integrated into an educational website, enhancing the learning experience with interactive videos, animations, quizzes, and notes, resulting in a 40% increase in student engagement.

## Societies

**NSS RVCE, Bangalore, IN**

Member

Mar 2022 – Present

* Organized events including Utsarga Marathon-2024 (nearly 1000 participants from various disciplines), Paper Drive-2023 (collected 1 tonne of paper), and Blood Donation Camp-2023 (more than 500 donors from the college).

## Frequency Club RVCE, Bangalore, IN

Member

Feb 2023 – Present

* Coordinated events including HACK THE NIGHT-2023 (200+ participants) and Web Development Session-2023 (60+ participants).

## Publications

**Smart Fruit Ripeness Detection Integrating Image Processing and Temperature Sensing Technologies**

* Published in IJERT, Dec 2023
* Implemented a smart fruit ripeness detection system using ESP32 (NODE MCU) and image processing techniques, integrating temperature sensing for accurate ripeness assessment, achieving 90% accuracy.

## Certifications

**Introduction to Soft Computing**

* Finished an NPTEL course on Fuzzy Logic, Optimization, Genetic Algorithms, and Artificial Neural Networks.
* Earned Gold certification, ranking in the top 5% in March 2024.