# Voorugonda Rahul

Roll No.: 21ECB0B65
B. Tech
Electronics and Communication Engineering
National Institute Of Technology, Warangal

+91-7674069568
rahulv7apr@gmail.com
vr21ecb0b65@student.nitw.ac.in
GitHub Profile
LinkedIn Profile


## Education

**National Institute of Technology, Warangal** *2021-Present*
*B.Tech in Electronics and Communication Engineering*

**SR Junior College,Hanamkonda** *2018 –2020*
*Board of Intermediate Education, Telangana*

**SR National High School,Hanamkonda** *2017 – 2018*
*Board Of Secondary Education,Telangana*

## Skills

**Languages**: C++ , Python, JavaScript, HTML, CSS, SQL
**Frameworks and Libraries**: PyTorch, TensorFlow, React
**Cloud/Databases**: AWS, MySQL
**Specialized Skills**: Data Structures and Algorithms, Machine Learning, OOPs

## Experience

**Pocketfm** *June 2025*
*SDET intern* Bangalore

- Automated critical non-login iOS test cases using XCUITest with Swift, improving test reliability and reducing manual effort.
- Developed Android automation scripts using Appium (Java) and built HR workflow automations with Google Apps Script, including a functional internal dashboard.

## Projects

**Low Light Image Enhancement Using Zero DCE** *Dec 2022*
*Tensor Flow, Numpy, Deep Learning*

- Implemented a lightweight Convolutional Neural Network (CNN) with just 79,416 parameters to effectively enhance low-light images, balancing performance with computational efficiency
- Utilized the Zero-DCE model, a deep learning-based enhancement technique, to improve low-light images without the need for paired data.
- Developed an Architecture Which uses 6 Convolution layers to produce 24 Curve parameter used for 8 Iterations. The Image Intensity is increased using a Quadratic equation. We separately apply the Quadratic equation to three RGB channels at the end we add these 3 channels to get the final Enhanced Image..

**IOT Based Temperature and Humidity Monitoring Device with Location Tracking Using AWS** *Dec 2023*
*AWS, Arduino IDE, IOT, MQTT, GSM, GPS*

- Engineered an IoT device for real-time monitoring and transmission of environmental data and location during the transportation of sensitive goods, reducing spoilage of perishable items like food and medicine.
- Used MQTT for data transmission, achieving a 99 percent data accuracy rate during transportation over a 300 km range.
- The system supported simultaneous monitoring of up to 10 devices, allowing for efficient tracking and location management.

## Research Experience

**Emotion Recognition from EEG Signals using Graph Convolutional Network**
*NIT Warangal | Guide: Dr. Ch. V. Rama Rao* 2024–2025

- Developed a Graph Convolutional Network (GCN) model to classify emotions from EEG signals, enhanced with a Trainable Adjacency Relation (TAR) module.
- Processed the DEAP EEG dataset, extracting spatial–spectral features to improve emotion recognition.
- Achieved 74.13% accuracy on the DEAP dataset, demonstrating strong model performance.

## Achievements

**Qualified for Stage 2 of the EYRC 2022–23 conducted by IIT Bombay**

- Qualified for stage 2 out of 450 teams in the Swachhta Bot Theme of eYRC 2022–23.
- Completed 4 out of 6 tasks in the Swachhta Bot Theme.
- Built an FPGA-powered smart-city simulation robot capable of segregating waste and performing pick-and-place operations using controlled sensors and actuators.