

Purelli Vignesh Reddy

Hyderabad, Telangana | 9182200632 | purellivignesh@gmail.com



[Linkedin](#)



[Github](#)



Career Objective

To obtain a Software Engineer role where I can apply my skills in DSA, web development, IoT, and machine learning to build innovative solutions while growing through collaboration and challenging projects

Education

- VNR VJIET Hyderabad
B. Tech in Computer Science and Engineering with specialization in Internet Of Things
CGPA: 8.69/10
2022-2026
- Narayana Junior College, Madhapur
Telangana State Board of Intermediate Education (TSBIE),Kondapur
Marks: 963/1000
2020-2022
- DR KKR'S Gowtham Concept HS- ECIL
The Board of Secondary Education (SSC), Telangana
CGPA: 10/10
2020

Work Experience

DRDO - Ministry of Defense, Gov of India - DRDL
Internship

Feb 2025 – MAR 2025
Hyderabad

- Assisted in **Deep Learning-based Object Detection for Aerial Surveillance**, exploring **real-time object tracking** with computer vision models.
- Gained hands-on exposure to dataset preprocessing, model training (YOLO, Faster R-CNN), and performance evaluation for aerial imagery.
- Observed and studied AI applications in defense, particularly in small object detection and high-altitude image analysis.

Projects

- Project Name:** Wearable Gesture-Based Control Using ESP32
Description: Developed a wearable **gesture control device** using an **ESP32 and MPU6050 accelerometer** to recognize hand movements with Edge Impulse machine learning models. Implemented **WIFI communication** to trigger actions on a laptop, enabling hands-free control for tasks like media playback and window navigation. Overcame challenges in real-time gesture classification and wireless communication.
- Project Name:** Tree enumeration
Description: This project aims to automate tree enumeration in aerial images by employing pre-processing techniques for feature enhancement and OpenCV algorithms for initial tree detection. It then utilizes a pre-trained deep learning model, such as DeepForest, for accurate tree counting and classification, streamlining the process of tree population analysis in large-scale aerial imagery.
- Project Name:** Full-Stack Blog Application
Description: Developed a fully functional full-stack blogging applications with ability to register, login, post, edit ,view and delete articles.

Technical Skills

- **Programming Languages:** C, Python, Java ,C++,R
 - **Deep Learning :** TensorFlow
 - **Web Development:** HTML, CSS, Bootstrap, JavaScript, Node.js, Express.js.
 - **Database:** SQL, MongoDB.
 - **Other Skills:** Data Structures, Algorithms, Problem Solving.
-

Achievements

- 5 stars in problem solving in HackerRank.
 - Got 1st place in ideathon conducted by Krithomedh club in VNR VJIET.
 - Solved 500+ problems in various coding platforms .
 - Achieved 7th position out of 700 teams in Krithomedh coding contest at VNR VJIET.
 - Participated in Kavach National-Level Hackathon.
 - Participated in Smart India Hackathon.
-

Extra-Curricular Activities

- Played cricket as an Extra Academic Activity ,VNR VJIET.
 - Interest in playing chess and participated and won in school-level competitions
-

Acknowledgement

I acknowledge that all information provided here is true to the best of my knowledge and belief.

Purelli Vignesh Reddy