Vamshi Priya Thonti

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CAREER OBJECTIVE

Pre-final year B.E. student in Information Technology with a strong foundation in programming and data analysis. Seeking opportunities to apply technical skills, contribute to real-world projects, and grow in dynamic tech environment

EDUCATION

Gokaraju Lailavathi Engineering College, Hyderabad **2022-2026**

Bachelor of Engineering – Information Technology (CGPA 9.17)

Trinity Girls Junior College, Karimnagar **2020-2022**

Intermediate – MPC (Percentage: 97.9)

T.S Model School, Elagandal, Karimnagar **2019-2020**

Secondary School Certificate (CGPA: 10.0)

SKILLS

Programming Languages: Python, SQL, Java, C, C++

Tools: MS Excel, Visual Studio Code

Web Technologies: HTML, CSS, JavaScript

CS Fundamentals: DBMS, Data Structures, OOP, Operating Systems, Networking, Algorithm Analysis

Interpersonal Skills: Problem Solving, Logical Thinking, Time Management, Communication skills, Adaptability

PROJECTS

Wine Quality Prediction Using Machine Learning April – June 2025

Developed a machine learning-based wine quality prediction system using red and white wine datasets from the UCI Machine Learning Repository. The model predicts wine quality based on physicochemical features such as acidity, sugar content, and alcohol. Data preprocessing included feature scaling and handling class imbalance using SMOTE to enhance performance across varying quality levels. An XGBoost classifier was employed and fine-tuned using Optuna for hyperparameter optimization, resulting in improved accuracy and model generalization. An interactive Streamlit web application was created to allow users to input wine attributes and receive real-time quality predictions with visual feedback. The project demonstrates the application of machine learning as a scalable and objective alternative to traditional wine quality assessment methods.

Tools used: Python, XGBoost, SMOTE, Scikit-learn, Streamlit, Pandas, Matplotlib, Optuna

IoT-Based Vertical Farming Nov-Jan 2025

This project is focused on developing a smart farming setup using IoT sensors to monitor and optimize conditions like temperature, humidity, and soil moisture, improving efficiency and crop yield.

Components Used: Arduino UNO, NodeMCU (ESP8266), DHT11 Sensor, Relay Module, Soil Moisture Sensor.

CERTIFICATIONS & ACHIEVEMENTS

Qualified **GATE 2025**

Received certificates from **NPTEL** for **JAVA, PYTHON, C, C++.**

Received **Certificate of Excellence** for scoring **highest GPA** for Academic years 2022-23 and 2023-24

Received **Career Essentials in Data Analysis** by **Microsoft** and **LinkedIn** certificate

Deloitte Data Analytics Virtual Internship (Forage, June 2025) – Gained hands-on experience in data analysis