

# MANAM VENKATA RAMYA

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## Education

### B.Tech in Computer Science and Engineering

Vignan's Foundation for Science, Technology & Research

2021 - 2025

Guntur, Andhra Pradesh - CGPA: 8.59

### Intermediate in MPC

MSR Junior College

2019 - 2021

Valaparla, Andhra Pradesh - Percentage: 96%

### Matriculation

Sumedha High School

2018 - 2019

Valaparla, Andhra Pradesh - Percentage: 100%

## Projects and Experiences

### Crop Recommendation by Analysing Soil Characteristics

Nov 2023 – Mar 2024

- Designed and implemented a machine learning system to optimize crop recommendations by analyzing critical soil parameters—including pH levels, nutrient content, and moisture. This innovation led to a 20% increase in crop yield.

### A Novel Boosted Machine Learning Model for Software Defect Prediction

Nov 2023 – Mar 2024

- Developed an advanced software defect prediction methodology utilizing Kernel Principal Component Analysis (PCA) in conjunction with the XGBoost algorithm, achieving a notable prediction accuracy of 92%.
- Outcome: Authored and published a research paper in ICITEICS-24, significantly advancing software quality assurance practices.

### Web Development - Alumni Website

May 2023 – Aug 2023

- Designed and implemented a robust alumni networking platform to strengthen organizational engagement. Streamlined communication and collaboration, fostering meaningful connections among alumni. Achieved a remarkable 90% increase in alumni participation through enhanced platform features.

### Web Development Intern, Bharath Intern

Feb 2023 – Apr 2023

- Built and maintained dynamic websites and web applications, enhancing front-end and back-end development skills. Delivered user-focused solutions with exceptional functionality and seamless performance.

## Skills

**Languages:** C, Python, SQL

**Web:** HTML, CSS, JavaScript

**Tools:** MySQL, Jupyter notebook, Visual Studio Code, GitHub

**CS Fundamentals:** Operating System (OS), DBMS, Computer Network (CN), Machine Learning (ML)

## Achievements

- Earned PET(Grade C) and BEC(Level B1) certifications from Cambridge University
- Obtained 7 online certifications from Analytics Vidhya, LetsUpgrade, and Cognitive Class..
- Earned 4 NPTEL certifications, including Elite + Silver, Certified with public speaking certificate as a part of Life skills.
- Cisco Networking Academy - Introduction to Cybersecurity (June 2023): Gained expertise in cyber threats, network vulnerabilities, and security strategies.
- Scored 248 out of 400 on the NxtWave Employability Test and Achieved certifications in C and Python from CodeChef.
- Recipient of multiple awards for participation in various coding contests, including the CODE FURIA 5.0 by JNTU-GV(A) ACM Student Chapter, Awarded with 50% scholarship in Vignan University for the full course duration
- Achieved conference paper acceptance on A Novel Boosted Machine Learning Model For Software Defective Prediction.

## Extra-Curricular and Responsibility

- Conducted seminars on Covid-19, Computer Networks, and Machine Learning at Vignan University.
- Served as a Registration coordinator for national level fests Mahotsav and srujanankura conducted in Vignan University in the year 2023, Worked as a Fine arts coordinator for Mahotsav in the year 2024
- Teaching Assistant at VFSTR, July 2024 – Present, teaching Database Mangement Systems topics, organizing doubt sessions to juniors.