

# Tirumalesh Naidu Vanjarapu

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talavaram, Parvathipuram Manyam

## EDUCATION

### Gayatri Vidya Parishad College of Engineering May-2026

Bachelors of technology in Computer Science | CGPA: 9.1 (Pursuing)

### Sasi Educational Institutions June-2022

Higher Secondary Education | Percentage: 96.7%

### Jawahar Navodaya Vidyalaya JNV March-2020

Secondary Education | Percentage: 85.6%

## PROJECTS

### Grocery app (E-Commerce)

- Created a comprehensive full-stack e-commerce application with Node.js, React, Express, and MongoDB, designed to support distinct user and admin functionalities. Implemented secure authentication systems tailored for each role, ensuring accessibility and data protection.
- Built advanced administrative features, including intuitive interfaces for managing product catalogs, empowering admins to efficiently add, modify, and remove listings. Designed seamless interaction between the client-side and server-side through RESTful APIs, facilitating reliable and fast data exchange.
- Optimized data handling with a scalable MongoDB database, enabling real-time updates to enhance the user experience.

### Bank - Loan Prediction

- Developed a loan prediction system using Pandas and NumPy, analyzing a CSV dataset and visualizing data patterns to enhance decision-making. Built machine learning models with Random Forest and Linear Regression, achieving 82% accuracy and  $R^2 = 0.75$  (Random Forest) and  $R^2 = 0.68$  (Linear Regression).
- Performed data preprocessing, including handling missing values and normalizing data, ensuring high-quality inputs for improved model predictions.

### Personal-Portfolio -Website

- Engineered a dynamic portfolio website with React.js and React Router DOM, showcasing expertise through projects, skills, and professional achievements. Integrated a contact form API for streamlined communication and deployed on Netlify, ensuring robust hosting and automated updates.

## INTERNSHIPS

### Machine Learning Intern (Academor)

1/10/2023-30/11/2023

- Leveraged Python libraries (pandas, numpy, scikit-learn) to develop and optimize machine learning models, conduct in-depth exploratory data analysis, engineer features, and collaborate on impactful, real-world projects and datasets.

## SKILLS

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

**Frontend:** HTML, CSS, React.js

**Backend and Database:** Node JS, MongoDB, MySQL

**Web Tools:** Git, GitHub, Vscode, Postman

**Course Work:** DSA, Machine Learning, Computer Networks, Operating Systems, Database Management System, Object Oriented Programming.

**Soft Skills:** Teamwork, Adaptability

## CERTIFICATIONS

- |                            |               |
|----------------------------|---------------|
| Fundamentals of C++ - IBM  | April-2024    |
| Mern Stack from Tech Pro   | November-2024 |
| Infosys SpringBoard Python | February-2024 |

## INTERESTS AND HOBBIES

- Solved **100+ problems** on LeetCode and achieved a **1349 rating** on CodeChef.
- Table Tennis SOUTH-ZONE** player(Inter-University selected for AU).
- Led table tennis team, strategized and coordinated practice sessions, fostering teamwork and achieving competitive success.