MADDIPATLA VENKAT NISHANTH

7093015114 — nishanth.maddipatla@gmail.com — linkedin.com/in/nishanth-maddipatla

PROFESSIONAL SUMMARY

Computer Science and Engineering (AI & ML) undergraduate with hands-on experience building responsive web applications and AI-driven projects. Skilled in React.js, JavaScript, Tailwind CSS, Python, FastAPI, REST APIs, and machine learning fundamentals. Interested in frontend, full-stack, and AI/ML software development opportunities.

TECHNICAL SKILLS

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

Frontend: HTML5, CSS3, React.js, Tailwind CSS, Responsive Web Design, React Context API

Backend & APIs: Node.js, Express.js, FastAPI, REST APIs, Authentication

Databases & Platforms: MongoDB, Firebase

AI / Machine Learning: Scikit-learn, XGBoost, SARIMAX, Time-Series Analysis, Feature Engineering, Regression Modeling

Tools: Git, GitHub, Postman, VS Code

Core CS Concepts: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems (DBMS)

PROJECTS

Smart Waste Management Platform — Municipal Waste Tracking System *Sep 2025*

React.js, JavaScript, Tailwind CSS, Context API

- Built a responsive web platform that enables users to access municipal waste collection schedules, recycling information, and local processing updates.
- Developed interactive dashboards to display collection data, recycling progress, and area-specific waste-management information.
- Implemented reporting workflows and managed shared application state across multiple pages using React Context API.
- Created reusable and mobile-friendly React components using Tailwind CSS for a consistent user experience across devices.

Panta Dhara AI — Agricultural Commodity Price Forecasting Engine

Python, FastAPI, SARIMAX, XGBoost, Scikit-learn, REST APIs

- Built a time-series forecasting system using SARIMAX and XGBoost to analyze agricultural market prices, arrival volumes, and rainfall data.
- Engineered features from AGMARKNET, APMC, and rainfall datasets to support agricultural commodity price prediction.
- Developed FastAPI-based REST APIs to serve price forecasts and *Hold vs. Sell Now* recommendations.
- Implemented inter-mandi price comparison to identify potential selling opportunities across regional markets.

ACHIEVEMENTS

- Achieved **3-Star rating on CodeChef**, demonstrating algorithmic problem-solving and competitive programming skills.
- Led development teams in **3 hackathons**, contributing to the delivery of end-to-end software projects.
- Maintained a **GPA of 8.12/10**.

CERTIFICATIONS & ACTIVITIES

- Google Solution Challenge 2026 — Built and submitted an AI prototype.
- Prayatna 2.0 Hackathon — Participation Certificate.
- Amazon Web Services (AWS) Workshop.

EDUCATION

Sasi Institute of Technology and Engineering, Tadepalligudem *Aug 2024 – Present*

Bachelor of Technology in Computer Science and Engineering (AI & ML)

GPA: 8.12/10