

NAGALLA SATISH

Kakinada, Andhra Pradesh

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EDUCATION

National Institute of Technology Agartala

B-TECH - Electronics and Communication Engineering

2022 – 2026

Tripura, India

Sri Sai Aditya Junior College

Intermediate - MPC

2020 – 2022

Kakinada, India

PROJECTS

Polymarket AI Trading Agent [🔗](#) | [Python](#), [WebSocket](#), [XGBoost](#), [LightGBM](#), [TG Bot](#)

2026

- Built a real-time BTC trading engine for Polymarket using live Binance WebSocket price data and short-term market prediction models.
- Developed a backend system with live orderbook tracking, WebSocket communication, risk management, and replay/backtesting features using Python and aiohttp.
- Used XGBoost, LightGBM, Random Forest, and Logistic Regression models to predict BTC price movement in 5-minute markets, achieving AUC scores up to **0.9501**.
- Implemented automated trade execution, live data processing, and real-time monitoring with dashboard and safety controls.

AI-Based Hate Speech and Abusive Language Detection [🔗](#) | [Chrome Extension](#), [NLTK](#)

2025

- Developed a real-time hate speech detection system for social media platforms such as Twitter, YouTube and Instagram. Implemented text preprocessing, TF-IDF vectorization, and machine learning models to classify content as Hate, Offensive, or Neutral with high accuracy. Integrated the model with a FastAPI backend and a Chrome Extension for real-time detection and inline labeling of comments and posts.
- [Live site here](#)

EVM Wallet Reputation & Risk Analyzer [🔗](#) | [Next.js](#), [Tailwind CSS](#), [Wagmi](#), [Viem](#), [Base RPC](#)

2025

- Built and deployed **Base Pulse**, a read-only on-chain analytics mini app that analyzes EVM wallet activity on the **Base chain**. Generates wallet reputation scores and detects strong compromise risk patterns using transaction history and behavior signals. Deployed as a **Mini App on Farcaster** and **Base App** with a fast, clean UI for public use.
- [Live site here](#)

INTERNSHIP

TechnoHacks [🔗](#)

JULY 2024 – AUGUST 2024

Machine Learning Intern

Remote

- Completed a Machine Learning internship at **TechnoHacks EduTech**, gaining hands-on experience in data preprocessing, model building, and predictive analysis using Python and machine learning algorithms.

TECHNICAL SKILLS

Languages: C, C++, Python

Developer Tools: VS Code, Matlab, HFSS, Docker, Jupyter Notebook, Railway, Cursor, Claude Code, Antigravity, OpenClaw, Zed

Technologies: Git, GitHub APIs, REST APIs, WebSockets, Machine Learning, XGBoost, LightGBM, Scikit-learn, Pandas, NumPy, Web3, EVM

CS Fundamentals: Data Structures, Algorithms, OOPs, Computer Networks

Web Development: HTML, CSS, JavaScript, React.js, Next.js, Tailwind CSS, REST APIs, Wagmi, Viem

ACHIEVEMENTS

- Secured top 3.7 percentile in JEE Mains 2022
- Selected to receive a scholarship from the Foundation for Excellence for academic performance
- Selected as a volunteer for **Zama**, a privacy-focused Web3 company that raised \$150M at a \$1.2B valuation

EXTRACURRICULAR AND HOBBIES

Extracurricular: Volunteered in college events, Content creator, Member of the Art Club in school.

Hobbies: Vibe Coding, Tech Content Writing, Photography, Gym/Fitness.

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EDUCATION

National Institute of Technology Agartala

Bachelor of Technology- Electronics and Communication Engineering

Nov 2022 - Present

Agartala, India

Sri Sai Aditya Junior College

Senior Secondary [XII] - MPC stream

2020 - 2022

Kakinada, India

PROJECTS

Smart Assistive Stick 🔗 | **Embedded Systems, Bluetooth Communication, Android, IoT Integration**

- Developed a smart assistive system by integrating **Arduino**, **ultrasonic sensors**, and **Bluetooth (HC-05)** with an **Android app**, enabling **real-time obstacle detection**, **voice alerts**, and **indoor/outdoor navigation** for visually impaired users.
- Built a connected **user caregiver ecosystem** using **Firebase Realtime Database**, implementing **live GPS tracking**, **SOS alerts**, and **secure access-based linking** for continuous **remote monitoring** and **emergency response**.

Environment Safety Alert System 🔗 | **Arduino, Embedded C++, Sensor Integration**

- Developed a **real-time multi-sensor safety system** using **Arduino Uno** by integrating **MQ2**, **DHT22**, and **flame sensors** to detect **gas leaks**, **fire**, and **abnormal temperature conditions**.
- Designed a **priority-based alert mechanism (Fire > Gas > Temperature)** with **buzzer**, **LEDs**, and **LCD interface**, ensuring **immediate hazard detection** and a **modular, scalable embedded system architecture**.

Arduino Traffic Light System 🔗 | **Embedded C, Microcontrollers, Arduino UNO, Digital Electronics**

- Designed a **microcontroller-based traffic signal system** using **Arduino UNO**, integrating **LED signals** and a **push button** to simulate a **real-world pedestrian crossing**, with **embedded C/C++ logic** controlling **3 states (Green, Yellow, Red)** and precise timing.
- Implemented **event-driven pedestrian control** using **GPIO pins**, enabling **real-time override of traffic flow**, and validated system behavior through **serial communication (9600 baud)** for reliable operation and monitoring.

TECHNICAL SKILLS

Core Fundamentals: C, Embedded C, Linux OS Concepts, Microcontrollers

Microprocessor & Assembly Programming (8085 / 8086): Developed 15+ assembly programs on Intel 8085/8086, implementing arithmetic (8/16-bit, BCD), memory operations, and control-flow algorithms using efficient register and instruction handling.

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CERTIFICATES

Ansys HFSS Training 🔗 Participated in a 2-day workshop on HFSS and simulation techniques using Ansys.

Certified Machine Learning Intern 🔗 Exposure to end-to-end Machine Learning workflows.