Sai Durga Mahesh Pulugujja

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B.Tech in Computer Science and Engineering, NIT Warangal

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Summary

Ambitious Computer Science undergraduate at NIT Warangal with a strong foundation in full-stack development, machine learning, and blockchain systems. Adept at solving complex problems with over 500+ coding challenges solved and real-world project experience. Known for quickly mastering new technologies, collaborating in teams, and building scalable, secure applications. Strong interest in low-latency systems, financial computing, and quantitative infrastructure.

Personality

Highly curious, analytical, and resilient, with a passion for precision and systems optimization. Thrive in fast-paced, high-stakes environments. Effective communicator and life-long learner with a strong ability to break down complex systems and work collaboratively.

Experience

Prodigy Infotech – ML Intern (Remote)

June 2024
[Certificate Link]

- Developed a customer segmentation model using K-Means clustering.
- Built a housing price prediction system with linear regression achieving 98% accuracy.
- Optimized model efficiency, reducing latency by 20%.

Technical Skills

Languages: C++, Python, Java, R
Frameworks: TensorFlow, PyTorch, scikit-learn, Express.js
Tools & Operating systems: Node.js, Redis, MongoDB, Google Cloud, AWS, TradingView, Ubuntu, Windows
Other: Git, VS Code, SQL, REST APIs
Relevant Coursework: DBMS, Operating Systems, Computer Networks, Software Engineering

Achievements

- **Top 0.3% in JEE Mains 2022 – AIR 3731 out of 1 million+ students**
- **Solved 500+ LeetCode problems**
- **Received a recommendation letter from internship mentor**
- **Built multiple end-to-end systems using cloud and blockchain technologies**
- **Completed several algorithmic contests and hackathons with distinction**

Projects

Cloud-Integrated Blockchain Storage

Solidity, Node.js, Google Cloud, Redis

- Developed Ethereum smart contracts to verify and log file metadata.
- Integrated with Google Cloud Storage for encrypted file uploads.
- Created REST APIs and a Redis cache for file access and Quality of Service (QoS) tracking.

Sci-Fi System Monitor

Python, Tkinter, Matplotlib, Pygame

- Built an animated GUI to display real-time system usage.
- Integrated sound effects and interactive visualizations.

Hand Sign Recognition Model

TensorFlow, OpenCV

- Trained a CNN model achieving 95%+ accuracy on hand gesture images.
- Applied image augmentation and OpenCV preprocessing techniques.

Order Book Engine (Prototype)

C++, STL, Multithreading, Socket Programming

- Designed and implemented a prototype for a high-frequency order matching engine.
- Built core data structures including limit order book and priority queue.
- Used multithreading to simulate concurrent order placement and matching.

Education

NIT Warangal
B.Tech in Computer Science & Engineering   2022–2026

Sri Chaitanya Junior College
Intermediate (MPC)   2020–2022