

Siva Nellipudi

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SUMMARY

B.Tech student in AIML with strong fundamentals in data structures, algorithms, and full-stack development. Built performant systems and ML models using Python, JavaScript, and TensorFlow. Passionate about solving challenging problems in distributed systems and building optimized, production-grade code.

TECHNICAL SKILLS

Languages: Python, JavaScript

Core CS: Data Structures, Algorithms, OOP, Multithreading, Cache Design

Systems Tools: Docker, Git, VS Code

Web Stack: React, Node.js, Express, REST APIs, HTML, CSS

ML: TensorFlow, OpenCV, Model Training

Databases: SQL, MongoDB

PROJECTS

Hand Gesture Recognition Engine

Python, TensorFlow, OpenCV

- Developed a CNN model with real-time prediction performance using live video feeds.
- Applied preprocessing and data augmentation to boost generalization.
- Deployed using Hugging Face API for seamless integration into applications.

Grocery Management System

Django, Python, HTML, Bootstrap, SQLite

- Built a full-stack CRUD web app to manage grocery items with quantity, price, and expiry tracking.
- Integrated search, category filters, and expiry alerts such as Fresh, Expiring Soon, and Expired with badges.
- Calculated total inventory cost dynamically; styled interface with Bootstrap and custom background effects.
- Implemented add/edit/delete functionality using Django views, templates, and ModelForms.

SYSTEMS PRACTICE

- Explored cache design patterns (LRU, size/memory constrained).
- Built concurrency-safe code using Python's threading and async libraries.
- Worked with hash maps, memory management concepts, and performance benchmarking.

EDUCATION

Raghu Engineering College, Visakhapatnam

2022 – 2026

B.Tech in AIML

8.2 GPA

Siddartha Junior College, Tuni

2020 – 2022

Intermediate (MPC)

913/1000

Sri Sarada EM School, Annavaram

2019 – 2020

SSC

590/600

CERTIFICATIONS

- SQL Basics – Skill Rack
- C Programming – The Digital Adda
- CSS (Basic) – HackerRank
- HTML, CSS, JavaScript – The Digital Adda

ACHIEVEMENTS

- Completed 3-month frontend internship at Code Alpha.
- 2nd place in college coding contest (2000 prize).