Musaddique Ali

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EDUCATION

Parul Institute of Technology Vadodara, Gujarat, India
Bachelor of Technology in Computer Science & Engineering (AI) *2022 -- 2025*

A.Y. Dadabhai Technical Institute Kosamba, Gujarat, India
Diploma in Computer Engineering *2019 -- 2022*

EXPERIENCE

Artificial Intelligence Intern Remote
YBI Foundation *Nov 2024 -- Feb 2025*

- Developed a deep learning model for handwritten text detection utilizing the ResNet50 architecture, achieving high accuracy in character recognition.
- Curated and pre-processed a custom dataset of handwriting samples to train and validate the model effectively.
- Implemented data augmentation techniques to improve model generalization and robustness against varied handwriting styles.

PROJECTS

Marketplace REST API | *C, Jansson, Ulfius, SQLite3, Nginx, cURL*

- Architected a high-performance RESTful API in C for a general e-commerce marketplace, utilizing the Ulfius framework for endpoint management.
- Integrated SQLite3 for lightweight, persistent data storage to manage product inventory and transaction records reliably.
- Implemented robust JSON parsing and serialization using the Jansson library to ensure efficient data exchange.
- Configured Nginx as a reverse proxy server to handle load balancing and enhance security for API requests.
- Validated all API endpoints thoroughly using cURL scripts to ensure reliability and correct HTTP status code handling.

Linux System Dashboard | *C, Raylib, Raygui*

- Engineered a lightweight graphical system monitor for Linux environments using C and the Raylib library.
- Integrated Raygui to design a responsive user interface that visualizes real-time system metrics.
- Implemented low-level system calls to fetch and display critical data such as RAM usage, Disk I/O, and Laptop Battery status.

TECHNICAL SKILLS

Languages: C, C++, Python, SQL (SQLite)

Frameworks & Libraries: Raylib, Raygui, Ulfius, Jansson, ResNet50, PyTorch/TensorFlow, Pandas

Developer Tools: Git, GitHub, Vim, VS Code, Nginx, cURL, Linux

Concepts: REST APIs, Machine Learning, Data Structures & Algorithms, System Monitoring