Omkar Naganasura

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GitHub | Linkedin | LeetCode

Education

M S Ramaiah Institute Technology karnataka,India
Computer science B.E 2021 - 2025
CGPA: 8.22

Alva's PU College karnataka,India
Science Pre-University 2019 - 2021
Percentage: 95%

Experience

Sparks Foundation | Machine Learning Intern Bengluru,India | November - December

- Developed a comprehensive web-based dashboard for real-time monitoring of critical equipment health.
- Reduced management reporting time by approximately two hours per week with predictive insights.
- Enabled data-driven maintenance decisions to improve overall equipment reliability and efficiency.

Skills

Programming Languages:	C/C++, Java, Python, HTML/CSS, DSA(C++), Javascript
Libraries/Frameworks:	React, Django, JavaScript, Spring Boot, Langchain
Tools / Platforms:	Docker, VScode, Git, Kubernetes
Databases:	MySQL, MongoDB, SQLite

Projects / Open-Source

Langchain Q&A Tool using LLMs | Link *Langchain,Python,HTML,CSS,open source LLMs*

- Developed a Dash-based web application for advanced text analysis using NLP and AI-powered tools.
- Implemented Named Entity Recognition (NER) and sentiment analysis for detailed text-based insights.
- Enabled auto text processing from URLs and PDFs with seamless multilingual translation support.
- Integrated AI-driven text summarization and text-to-speech (audio response) for enhanced accessibility.

Hospital Management System | Link *JAVA,Spring Boot,MYSQL,HTML,CSS.Javascript*

- Developed a Hospital Management System using Spring Boot, MySQL, and Thymeleaf for operations.
- Implemented patient management, appointment scheduling, and doctor profile handling for hospitals.
- Integrated Spring Security for authentication and role-based access control for authorized users.
- Designed and optimized database schemas to ensure efficient data storage and retrieval processes.

IoT-Based Smart Energy Monitoring System *Python,C++,SQLite,Django,Chart.js*

- Designed and developed an IoT-based system to monitor and optimize real-time energy consumption.
- Integrated Arduino and Raspberry Pi with sensors for precise energy tracking and system optimization.
- Built an interactive web dashboard to visualize energy usage trends, patterns, and key data insights.
- Achieved a 15% reduction in overall energy waste during initial testing and pilot phase deployments.

Gym Management System *HTML,CSS,Javascript ,MongoDB*

- Developed a gym management system using Node.js, Express, and MongoDB for efficient operations.
- Implemented key features for member management, attendance tracking, and workout scheduling.
- Designed a secure payment processing system to handle membership fees and online transactions.
- Built a responsive frontend using HTML, CSS, and JavaScript for an intuitive and seamless interface.

Certifications

- Data Structures and Algorithms - Coursera.
- Cloud Computing - SimpliLearn.