SRIDHAR R A

Bengaluru,India | sridhartkc@gmail.com | +91 9363319109 | GitHubProfile | LinkedinProfile

SUMMARY

I am a dedicated Computer Science student with a passion for continuous learning and skill development. I actively explore emerging technologies to enhance my problem-solving abilities and stay ahead in the field. With a strong analytical mindset, I strive to refine my technical skills and apply them effectively in real-world scenarios. Driven by innovation, I seek opportunities to contribute meaningfully to a dynamic professional environment.

SKILLS

Programming Languages: Python, JavaScript

Front End: React (Components, Props, State, Event Handling, JSX, ES6, hooks, redux, Router), CSS, TypeScript

Middleware: Flask

Database: MongoDB

GenAI: AWS Bedrock (Claude 3.5 Sonnet, Claude 2.5)

Cloud (AWS): EC2, S3, Lambda, ECS, ECR, API Gateway, IAM, Secrets Manager, Bedrock, CloudWatch

Serverless: AWS Lambda, Serverless Framework, API Gateway, AWS Event Bridge

API Testing: Postman

Containerization: Docker

Event-based: Lambda Triggers

PROJECTS

Final Year Project – Intelligent Product Sorting System (2025)

Developed a conveyor belt system to automate product sorting based on expiry dates and freshness. The system utilized OCR for text extraction, machine learning for classification, and real-time monitoring to enhance efficiency. A React-based web interface was created for seamless user interaction.

Roles and Responsibilities:
- Designed and implemented workflows for automated sorting.
- Developed a web interface using React for real-time system monitoring.
- Integrated OCR for extracting expiry dates and freshness details.
- Trained and deployed machine learning models for product classification.
- Optimized real-time detection using YOLOv11 and OpenCV.

Technologies Used:
React, Flask, MongoDB, Python, OpenCV, YOLOv11, Tesseract OCR, Machine Learning

SRISTI's 23 Hardware Edition Kerala - National Finalist (2023)

Developed a fire-detecting drone for forest surveillance, capable of real-time fire detection and tracking. A web application was created to display live images, track the drone's movement, and provide control functionalities. Machine learning was integrated for accurate fire detection.

Roles and Responsibilities:

- Developed image processing algorithms for fire detection.
- Implemented machine learning models for real-time fire classification.
- Created a web application for live tracking and image display.
- Integrated YOLOv8 for object detection and analysis.

Technologies Used:
Python, OpenCV, TensorFlow, HTML, CSS, JavaScript, Flask, YOLOv8

Flipkart Grid 5.0 Robotics Challenge - Participation (2024)

Developed an AI module for robotic arm integration to automate warehouse operations. The system enabled label detection, box condition analysis, and product sorting using neural networks for data extraction and handling, improving sorting efficiency.

Roles and Responsibilities:
- Designed and integrated an AI module for robotic arm control.
- Implemented label detection and box condition analysis using machine learning.
- Developed a web interface for monitoring and controlling warehouse operations.
- Utilized neural networks to optimize sorting accuracy and efficiency.

Technologies Used:
HTML, CSS, JavaScript, Flask, MongoDB, YOLOv8, TensorFlow, OpenCV, Python

INTERNSHIP

Front-End Development Intern :
CODEXINTERN (Remote Internship)
January 2025
- Web Development: Assisted in building and optimizing front-end components for web applications.
- HTML, CSS, and JavaScript: Designed responsive and interactive user interfaces using modern web technologies.
- React.js Development: Developed reusable components and improved UI performance.
- Debugging & Optimization: Identified and fixed bugs, ensuring smooth functionality.
- API Integration: Connected front-end applications with back-end APIs for dynamic data rendering.
- Version Control: Used Git & GitHub for code management and collaboration.
- Collaboration & Teamwork: Worked with a team of developers, following Agile methodologies.
- Self-Learning & Adaptability: Gained hands-on experience in front-end technologies while working in a flexible, self-paced environment.

EDUCATION

Higher secondary Education- State Board   **2020-2021**
 Vivekananda Mat. Hr. Sec School, Chennai

Bachelor of Technology - Information Technology   **2021 - 2025**
Prathyusha Engineering College,Thiruvallur / CGPA - 7.4

CERTIFICATE

Python certificate on Eduprep

Python certificate on Guvi

GIT certificate on SimpliLearn