SAAISATHISH SANKARABHATTAR AYYAPPAN

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SKILLS SUMMARY

- **Languages**: C, C++, HTML5, **Python**, CSS,SQL
- **Frameworks**: MySQL, Flask, OpenCV, Pandas, MLserver
- **Tools**: Git, **Github**, GCP, Postman, REST APIs, Linux, Docker, Kuberentes,Openshift
- **Skills**: **Agile**, Micro-services, **CI/CD**, Unit Testing

EXPERIENCE

Software Developer - FORD GTBC Chennai, India
Full-time *July 2022 - July 2023*

- **Implemented** a Cloud run infrastructure in GCP to effectively deploy and manage DataRobot JAR models, streamlining operational efficiency and maximizing model performance.
- **Developed** a Cloud function in GCP utilizing Flask to deploy Data Robot Prime models efficiently.
- **Implemented** and scheduled a cron job within Openshift to manage vault expiry notifications, ensuring timely alerts and proactive management of vault credentials.
- **Utilized** Seldon's MLserver to effectively deploy and serve custom models in Seldon Deploy, enabling seamless integration and efficient execution of machine learning algorithms and ETL cases.
- **Mentored** and guided two interns in my tenure, providing them with valuable support and assistance on projects.

Trainee Software Developer - FORD GTBC Chennai, India
Internship *January 2022 - July 2022*

- **Collaborated** closely with the Openshift team to successfully deploy Seldon in a production environment, ensuring seamless integration and optimal performance.
- **Thoroughly** executed and validated all Seldon deployment test cases, ensuring the reliability and accuracy of the deployed models in various scenarios.
- **Engineered** a customized script to seamlessly relay inputs to Argo batch jobs utilizing Seldon, streamlining the process of passing data to the batch processing pipeline for enhanced efficiency and scalability.

PROJECTS

Links to all projects are provided as hyperlinks .

- **Agriculture crop cultivation** - I led a project in agriculture where I harnessed my skills in data collection, preprocessing, and feature engineering to gather diverse agricultural data, including historical crop prices, weather patterns, soil quality, and cultivation practices. Employing a range of Machine Learning (ML) algorithms, including regression, time series forecasting, and ensemble methods, I developed accurate crop price prediction models. My analysis uncovered critical factors influencing crop prices and guided cultivation decisions. I effectively communicated findings through data visualization and dashboards, demonstrating proficiency in data presentation.

- **Traffic Signs detection**: In my project on Traffic Sign Detection using Deep Learning and Testing with OpenCV, I leveraged my proficiency in computer vision and deep learning to create an effective traffic sign recognition system. I meticulously curated and preprocessed a comprehensive dataset of traffic sign images and employed state-of-the-art deep neural networks like Convolutional Neural Networks (CNNs) to develop accurate detection models. Integrating these models with OpenCV, I enabled real-time traffic sign recognition in both images and videos. Rigorous testing and performance evaluation ensured the system's reliability under various conditions. The project demonstrated my advanced skills in computer vision and deep learning, emphasizing my practical expertise in leveraging OpenCV for real-world applications and contributing to improved road safety and traffic management through AI-driven solutions.

- **Portfolio:** In my GitHub portfolio project, I showcased my proficiency in web development by creating a dynamic and visually appealing online portfolio. Leveraging HTML, CSS, and JavaScript, I designed an interactive and responsive website that highlights my skills, projects, and achievements. The portfolio reflects my expertise in front-end development, including UI/UX design principles and responsive web design. By hosting the project on GitHub, I demonstrated my proficiency in version control and collaboration within a development team. This project serves as a testament to my web development skills and showcases my ability to create engaging user experiences for online audiences.

EDUCATION

Saint Louis University (SLU), St.louis, U.S.A
Master in Science - Computer Science (MSCS) *August 2022 - Present*

SRM University (SRM), Chennai, India
Under graduate degree in Computer Science *June 2018-May 2022*