A AKHIL

Student ~ ML Enthusiast

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SUMMARY

I am a skilled computer scientist with a passion for machine learning, deep learning, and computer vision. I have developed a number of projects using these technologies and I am looking forward for my first work experience.

SKILLS

Languages: C, C++, Python, Java, HTML, JavaScript.

Technologies: Nvidia Jetson Nano, Linux, AWS, Docker .

PROJECTS

Technology	**Advanced Traffic Sign Detection: Real-Time Small Object Recognition for Safer Roads** **To be published soon**

This research paper introduces a novel methodology for small object detection, specifically targeting traffic signs. Through the utilization of advanced techniques and extensive experimentation, the study contributes substantial enhancements to real-world traffic sign recognition, ultimately leading to improved safety and performance in practical applications. The findings and methods detailed in this research have the potential to significantly impact the field of computer vision and intelligent transportation systems.

Technology   **Comparative Study Of Various Regression Models**   **To be published soon**

Researched and compared Ridge, Lasso, and ElasticNet regression techniques in Java. Highlighted their unique applications: Ridge for multicollinearity mitigation, Lasso for feature selection, and ElasticNet as a versatile compromise. Valuable resource for Java-based data science and machine learning practitioners, contributing to the field's knowledge.

Technology   **Real-time parking detection using Computer vision**

Developed real-time parking detection system using computer vision technology. This project involved creating an automated solution for identifying and monitoring available parking spaces in real time. By leveraging computer vision algorithms, the system could analyze video feeds and provide information on open parking spots, aiding in efficient parking management.

Technology   **AI-Generated Text Detection System**

Designed and implemented an AI-Generated Text Detection System to distinguish between human-written and AI-generated content. Utilized machine learning models and natural language processing techniques to evaluate text authenticity and identify content generated by AI algorithms. This system helps ensure the quality and authenticity of textual information in various applications, such as content moderation and fraud detection."

Technology   **Chat App**

Designed and implemented a chat app with real-time messaging capabilities. Developed features for text and multimedia messaging, user authentication, and a user-friendly interface. The app enables seamless communication between users and provides a secure and responsive platform for real-time conversations."

EDUCATION

2022 - Present	**SRM Institute of Science and Technology** **College**

Current CGPA 8.77/10 (To be Completed May 2026)

2021 - 2022   **Sacred Heart International School**   **School**

ISC Class XII (Maths Biology): Passed with 89%

2019 - 2020   **Sacred Heart International School**   **School**

ICSE Class X: Passed with 87%

LANGUAGES

English, **Tamil** - native, **Malayalam**, **German** .