

# A AKHIL

Student ~ ML Enthusiast



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## SUMMARY

A skilled and motivated computer scientist with a passion for machine learning who has successfully designed, developed and implemented a number of Machine Learning projects. Led a team of six members and won the Smart India Hackthon competition and became the one of the top 30 teams out of the 400 teams.

## SKILLS

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

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

## SUCCESSFULLY COMPLETED PROJECTS

### Advanced Traffic Sign Detection: Real-Time Small Object Recognition for Safer Roads

Completed a project consisting of a research paper to introduce a particular methodology for small object detection, specifically targeting traffic signs. This study contributes substantial enhancements to real-world traffic sign recognition through the utilization of advanced techniques. This ultimately leads 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.

### Comparative Study Of Various Regression Models

Researched, compared and produced a report on Ridge, Lasso, and ElasticNet regression techniques in Java and highlighted their unique applications (e.g Ridge for multicollinearity mitigation, Lasso for feature selection, and ElasticNet as a versatile compromise)

### Real-time parking detection using Computer vision

Developed a real-time parking detection system using computer vision technology. This consists of creating an automated solution for identifying and monitoring the available vacant parking spaces in real time. This is done through leveraging computer vision algorithms. Also, this system will be able to analyze the video feeds and provide information on the available vacant parking spots in real time.

### AI-Generated Text Detection System

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

### Chat App

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

## EDUCATION

2022 - Present	<b>SRM Institute of Science and Technology</b> Current CGPA 8.77/10 (To be Completed May 2026)	College
2021 - 2022	<b>Sacred Heart International School</b> ISC Class XII (Maths Biology): Passed with 89%	School
2019 - 2020	<b>Sacred Heart International School</b> ICSE Class X: Passed with 87%	School

## LANGUAGES

English, Tamil - native, Malayalam, German .