# THARUN S

SOPHOMORE COLLEGE STUDENT

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Github Repositories | Portfolio Website

## ABOUT ME

Enthusiastic CSE-IOT sophomore at SRM University KTR with a strong foundation in front-end development (HTML, CSS, JavaScript, Bootstrap) and a growing passion for Machine Learning. I've successfully built several personal web projects to solidify my development skills. I'm actively expanding my knowledge in Machine Learning, exploring algorithms like Support Vector Machines and Logistic Regression, and applying this knowledge by training models for real-world prediction tasks. My fascination has further led me to delve into Natural Language Processing (LLM), OpenCV, and generative AI models. I'm highly motivated to gain practical experience through an internship and contribute my abilities to a real-world ML/DL project.

## SKILLS

- Frontend-development: HTML, CSS, Javascript, Bootstrap
- Programming Languages : C, C++, Python, Javascript
- Machine-Learning : Numpy, pandas, kaggle, Scikit-learn, huggingface and Natural language toolkit
- Soft skills : Communication, Teamwork, Creative thinking and Adaptability and eagerness to learn.

## EDUCATION

### Hindustan International School, Chennai

2019–2022 Grade 10,12

- Secured 82% in 10th.
- Secured 78% in 12th.
- Won multiple school sports competitions.
- Held the position of **house captain**, leading a school house.
- Led house to victory, securing **Best House** award in 2020 during captaincy.

### SRM Institute of Technology, Chennai

2022–2026 B.tech in CSE with specialization in IOT

- CGPA: **8.26** (First three semesters).
- Achieved **3rd place** in Concepto Ideathon organized by **IEEE** Club of SRM.
- Participated in multiple hackathons, advancing to round 2 in several competitions.

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# PROJECTS

## Portfolio Website

- Developed a frontend website using **HTML, CSS, Javascript.**
- Interactive portfolio website

## Diabetes Prediction

- Utilized the PIMA Diabetes dataset to develop a machine learning model in Python using **Scikit-learn**, aiming to predict diabetes in females based on health metrics.
- Implemented data standardization and a **support vector machine** (SVM) classifier with a linear kernel for training the model.
- Achieved a high accuracy score on both training and testing datasets, demonstrating the effectiveness of the model in predicting diabetes.

## Fake News Prediction

- Developed a fake news detection model in Python using **Scikit-learn**, leveraging **logistic regression** and **TF-IDF vectorization** to classify news articles as real or fake based on their content.
- Achieved high accuracy scores on both training and testing datasets, indicating the model's effectiveness in classifying news articles.

## Object detection

- Developed an object detection application using **OpenVINO** and Python to classify watches and mobile phones in real-time webcam images.
- Integrated performance metrics to measure and optimize the model's inference time, enhancing real-time processing efficiency.

## Construction Company Website Development

- Currently developing a website for a construction company, focusing on meeting the specific requirements and preferences of the client. Tasked with creating a user-friendly interface that showcases the company's services, projects, and contact information effectively. Responsible for implementing responsive design principles and ensuring compatibility across various devices and browsers.