

# KarthicKeyan Sakthivel

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🌐 [https://github.com/karthickeyan\\_S](https://github.com/karthickeyan_S) 🔗 <https://leetcode.com/skarthickeyan707>

## 📌 CAREER OBJECTIVE

Being a fresher studying B.Tech in AI and Machine Learning, excited to use my skills in both machine learning and software development on interesting projects.

## 🧩 SKILLS

- Machine Learning
- Deep Learning
- Data Visualization
- Image Annotation
- Data Preprocessing
- SQL

## 🧩 EXPERIENCED TOOLS

- Python , Java
- Flask , Fast API
- StreamLit
- Power BI
- Roboflow
- Git ,Git Hub

## 🎓 EDUCATION

Pursuing B.Tech in Artificial Intelligence and Machine Learning at Kongu Engineering College in Perundurai

Completed Higher Secondary education at Sagar International School in Perundurai

Completed High school in Winnar Vikas International School in Salem

## 📖 PUBLICATIONS

### Sentiment Analysis Using Deep Learning, 🔗

09/2023

## 🔗 PROJECTS

### Sentiment Analysis - Text Data 🔗

- Obtained dataset from Kaggle competition consisting of English sentences representing meaning in Tamil
- Applied various preprocessing techniques
- Trained RNN and LSTM models . LSTM possess highest Validation accuracy of 61%

### Emotion Analysis - Audio Data

- Prepared dataset through Tamil movie dialogues
- Applied various augmentation techniques
- Trained LSTM , BiLSTM , CNN
- BiLSTM performs well towards unseen data of accuracy of 94%

### Students Monitoring System using YOLO

- Collected data from the classroom environment. Annotated frames using Roboflow to prepare the dataset.
- Developed a YOLO model using the dataset of classmates' images. Tested the model in the classroom environment .

### Task-Manager using React 🔗

- Developed a simple ToDo List application using React.
- Created a user-friendly interface for adding, completing, and removing tasks.

### Leetcode Progress Tracker

- Fetched recent successful submissions from LeetCode profiles using GraphQL queries.
- Retrieved problem titles, timestamps, and difficulty levels as required data.
- Updated and maintained a CSV file with the collected data.

### Smart Visualizer

- Built a FastAPI web app for CSV uploads and instant data summaries.
- Used LLM API to create visualizations from simple text prompts.
- Displayed charts directly in the browser for easy viewing.