Sundareswari Thiyagarajan

tsundareswari@gmail.com

https://www.linkedin.com/in/sundareswari-thiyagarajan-396616282

https://sundareswari-12.github.io/

Education

B.E (Computer Science and Engineering)

University College of Engineering (BIT Campus), Tiruchirappalli, Tamil Nadu, India.

August 2019 - June 2023

CGPA : 8.34 / 10

High School

Modern Matric Hr. Sec School, Tamil Nadu, India.

June 2017 - March 2019

Marks : 81.67 %

Grade 10

Modern Matric Hr. Sec School, Tamil Nadu, India.

June 2016 - March 2017

Marks : 98.4 %

Skills

Technical Skills: Python, C, Java, MySQL, HTML, CSS.

Software: Arduino IDE, Matlab, Visual Studio, Microsoft office suite, Adobe Illustrator, Adobe Xd, Adobe Photoshop.

Research Interests

Machine Learning, Deep Learning, NLP, Computer Vision, Reinforcement Learning.

Extracurricular Activities

- **NCC Cadet 2019-2022 (C - Certificate Holder)**
- **Participated in Combined Annual Training Camp (CATC) 2022.**
- **Participated in Shot put and Throw ball competition (District level)**

Activities: Physical fitness, drill, weapon handling, social service, Map Reading, Obstacle and adventure sports.

Personality Development: The NCC experience helps in developing self confidence, communication skills, and overall personality growth.

Project Experience

STOCK MARKET PREDICTION USING SENTIMENTAL ANALYSIS (Feb - May 2023)

Using NLP and machine learning techniques to classify each piece of text as positive, negative, or neutral sentiment. LSTM and polarity score are used to predict the stock prices.

Technologies used: Natural language processing, web scraping.

EMBRYO DETECTION IN BANANA USING ARDUINO (July - Dec 2022)

It is a handheld portable device for viable embryo detection in banana breeding program for NRCB (NATIONAL RESEARCH CENTRE FOR BANANA)

Technologies used: Image processing, Arduino, Convolutional Neural Networks (CNN)

THE PARKINSON'S DISEASE DETECTION USING MACHINE LEARNING TECHNIQUES (Aug - Nov 2022)

Detecting Parkinsons disease using Spiral test , where the input images are trained with Random Forest Classifier. To implement Parkinson's detector deep learning and Convolutional Neural Networks (CNNs) are used.

Technologies used: OpenCV, Computer Vision, (CNN).

ONLINE FOOD ORDERING WEBSITE (Mar - June 2022)

Implementation : PHP, HTML, CSS and XAMPP control panel

Research Papers

- **A Multi-Model Approach- Stress Detection using Physiological Signals with LSTM and XGBoost Journal on Artificial Intelligence 2024 (Under Review).**
- **The Multiple Approaches for Drug-Drug Interaction Extraction using Machine learning and transformer-based Model. IEEE Access 2024 (Under Review)**

Internship

- AI to detect Criminal Cars using License Plate under the Supervision of The Korean Academy (2024).
- Java Full Stack Development Internship (1 July - 31 July 2024) under Eazy Bytes.

Certification

- Texas Instruments Online contest participation in the IICDC-2019-LIC (Oct 2019).
- Texas Instruments Online contest participation in the IICDC-2019-MSP (Oct 2019).
- React JS Workshop conducted by Madras Institute of Technology, Anna University, Chennai (May 2022).
- Handheld portable device for viable embryo detection in banana breeding program funded by CSRC under Research Support Scheme "Student Innovative Project"(July - Dec 2022)
- NCC 'C' Certificate provided by Ministry of Defence, Government of India (2022).
- Internship Certificate for AI to detect Criminal Cars with License Plate (2024).