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Tharunraj Singaravelu

in ⌂ *Credly*   Website: tharunraj-s.github.io

EDUCATION

Master of Science in Data Science and Statistical Learning
University Of Limerick, Ireland
Present

B.Tech Computer Science and Engineering
SRM Institute of Science and Technology –Ramapuram, Chennai
2020–2024
CGPA – 9.15

10th and 12th
Ramakrishna Mission Matriculation Higher Secondary School, Chennai
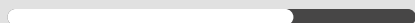10th – 87.20%
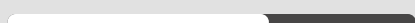12th – 76.00%

SKILLS

AI / ML

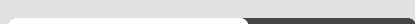**Data Science and Analytics**

SQL

Python programming

C C++ programming

HTML CSS JavaScript

IBM Watson

PUBLICATIONS

NINTH INTERNATIONAL CONFERENCE ON BIOSIGNALS, IMAGES AND INSTRUMENTATION *MAR 2023*
PRESENTED VISION BASED REALTIME ACTIVE PROTECTION SYSTEM USING DEEP CONVOLUTIONAL NEURAL NETWORK AND WON BEST PAPER AWARD.

PROJECTS

HUMAN SPEECH BASED EMOTION RECOGNITION USING CNN & LSTM NETWORKS WITH DWT AND MFCC FEB 2024 – MAY 2024
- HSER model using novel preprocessing and Resnet18–LSTm model
- Resnet18–LSTM 99.82% accuracy.

RENAL FAILURE PREDICTION USING RANDOM FOREST AND DEEP CONVULUTONAL NEURAL NETWORK SEP *2023 – NOV 2023*
- Model can efficiently identify CKD, Kidney stones, cysts and tumor through kidney biomarkers and CT–Scan images using Random Forest and Yolov8.
- Random forest obtained 99% accuracy and Yolov8 obtained 96% accuracy.

VISION–BASED ACTIVE PROTECTION SYSTEM *JAN 2023 – MAR 2023*
- The image processing technique with Radar for the real–time protection system of battlefield tanks capable of precisely destroying targets.
- The F1–score, Average Precision, and Average Recall are 93.10%, 89.50% and 91.26% for the computer vision model.

CERTIFICATIONS

IBM Applied AI JUN 2023
Coursera | IBM
This Specialization has 6 courses
1. Introduction to Artificial Intelligence (AI)
2. Getting Started with AI using IBM Watson
3. Building AI Powered Chatbots Without Programming
4. Python for Data Science, AI & Development
5. Python Project for AI & Application Development
6. Building AI Applications with Watson APIs

Supervised Machine Learning: Regression and Classification Feb 2023
coursera

Core python for everyone Jan 2023
Udemy

Microsoft Certified: Azure AI Fundamentals Oct 2022
Scored 76.30%