**SAI DEERAJ. D**

**PROFILE**

A budding Electrical and Computer engineer seeking an entry level position in the field of machine learning, networking and other related areas.

Well-versed in data organization and strategies for successfully modernizing workplaces.

Skilled in the field of programming, database management, and related areas, resulting in organizational and professional growth.

**EDUCATION**

* **B.Tech.** **Electrical and Computer Engineering**

**CGPA – 8.54 / 10 2019 – 2023**

Amrita School of Engineering,

Amrita Vishwa Vidyapeetham, Coimbatore

* **Class 12** – 84.8% **[CBSE] 2019**

Institution: Chennai Public School, Chennai

Subjects: Physics, Chemistry, Mathematics and Computer Science

* **Class 10** – 100% **[CBSE]** **2017**

Institution: Velammal Bodhi Campus, Ponneri

**TECHNICAL INTERESTS**

* Machine Learning
* Computer networks
* Database management systems

**PROJECTS**

**Stroke predictive system**Duration/Period:1 month   
Objective: to develop a machine learning model to perform stroke prediction based on dataset   
Tools or techniques used: Python, Scikit-learn, google colab

Outcome: Devised a supervised L1-linear SVC to predict the likelihood of a person getting a stroke with an accuracy of 94.5% using input parameters like gender, age, smoking status and medical history. Used a predefined stroke prediction dataset with 11 attributes from kaggle. Extracted important features from the dataset manually and used normalization to improve accuracy and avoid curse of dimensionality. 80% of data was used for training and 20% was used for testing.

**Automatic Vehicle Speed Control based on object detection**Duration/Period:6th semester  
Objective: to control the speed of a dc motor based on object detected in front of it  
Tools or techniques used: Python, Yolo Framework, Raspberry Pi

Outcome: A DC motor is assumed to be the tire of a car and based on the object placed in front of the camera of a car(A human) then based upon the distance between the camera and the object without the intervention of human the vehicle speed starts to decrease with the help of a PWM signal given to motor and detection is performed using yolo framework

**Page ranking web crawler**Duration/Period: 2 months  
Objective: to rank web pages(one redirected to another) based on relevance   
Tools or techniques used: Python, SQLite3

Outcome: Developed an application to optimize web crawling. The application relies on a page ranking algorithm to rank web pages based on strengths(content associative) between redirected web pages. This facilitates web crawler to read strongly associated content based on rank computed between two URLs increasing chances of finding relevant content. Used Mysql and python to program the application and SQLite3 to store all URL crawls in a specified webpage.

**TECHNICAL SKILLS**

* **Skills**

Python(Developer)

C(Developer)

C++(Intermediate)

Java(Developer)

MATLAB(Beginner)

MySQL(Beginner)

SQLite3(Beginner)

* **Software**

Net Sim

Wireshark

**CERTIFICATIONS**

* Specialization certification in python offered by University of Michigan, Coursera
* Java, Complete CCA certification

**ACHIEVEMENTS & HONORS**

* Badminton: CBSE south zone clusters
* Name: Member of GEN-E club(EEE Department)

Area/Topic/Details: Volunteer

**LANGUAGES**

* English
* Tamil
* Telugu
* Hindi