**A. SIVA KAILASH**

**PROFILE**

An enthusiastic and upcoming engineer interested in IOT, Deep learning, data analytics, mobile and web application development. As a curious and analytical learner with experience in team work and multiple group projects, I eagerly look forward to enhance and integrate my skills in various domains to the best of my potential to match the current industry standards and achieve organizational and personal growth.

**EDUCATION**

* **B.Tech Computer and Communication Engineering**

**CGPA – 8.44 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **BSc Data Science and Applications**

**CGPA – 7.2 / 10 2019-2023**

Indian Institute of Technology - Madras

* **Class 12** – 90.6% **2019**

Institution: Jawahar Higher Secondary School, Neyveli

* **Class 10** – 100% **2017**

Institution: Edison G Agoram Memorial School, Chidambaram

**TECHNICAL INTERESTS**

IoT, Machine Learning, UI/UX

**PROJECTS**

**Greenhouse automation, monitoring and alert system**  
•Duration: March 2022 – May 2022   
•Objective: To design an IOT based automation system using sensors, actuators and to design a system which controls and varies the temperature, humidity, soil moisture, water level etc. in a greenhouse without human intervention and updates all the data and images in the cloud using Thing speak and sends alerts in critical situations using Twilio.

•Tools or techniques used: Raspberry Pi, temperature sensor, humidity sensor, soil moisture sensor, water level sensor, Thing speak cloud, Twilio messaging module

•Outcome: Gained experience on working with various sensors and actuators along with raspberry pi. Understood the application of the core elements in an IOT automation system

**Tomato Leaf disease detection and classification**  
•Duration: June 2022 – July 2022   
• Objective: 1. To detect the diseased leaves in a tomato crop   
 2. To classify the disease in the detected leaves   
•Tools or techniques used: CNN and Deep learning algorithms like VGG16, VGG19 Yolo V5, Resnet 50 and some others.

•Outcome: To gain hands-on experience in deep learning algorithms and to detect and classify the diseased tomato leaves in order to automate and increase the yield in greenhouses.

**Data Analysis on Maruti Suzuki Showroom**  
•Duration: November 2022 – December 2022   
• Objective: To prepare a questionnaire and collect sales and other related data from the car showroom and analyze it to draw conclusions on advertising decisions and reserve stocks.

•Tools or techniques used: MS Excel, Python and libraries like Pandas, Matplotlib,   
 NumPy and Pyplot   
•Outcome: To gain real industry exposure in data analytics with first hand data and to help the car showroom to identify which car models to advertise frequently to improve sales and obtain more reserve car stocks based on the current sales trend and profit analysis on 1 year data.

**Notes and Tasks Pro” App for android and iOS**   
•Duration: July 2021 – September 2021   
• Objective: Developing a real time mobile application and publishing it in Google play store which has the features of maintaining the notes and tasks of a user in a single place.

•Tools or techniques used: Android studio, flutter, firebase   
•Outcome: Gained knowledge and experience in customized, user-friendly UI development, data storage and understood the core elements in professional apps and got it verified by play store.

**Flashcards” website Frontend design**  
•Duration: December 2021 – February 2022   
•Objective: To Develop websites for flashcards with customized user interface and   
 styling   
•Tools or techniques used: HTML, CSS, Bootstrap, Jinja2, hosted on Replit   
•Outcome: Learnt the process of web development, attractive User interface design and styling using CSS and hosted the site on Replit.

**TECHNICAL SKILLS**

Python, C, Arduino, SQL, HTML, CSS, Matplotlib, Scikit, Pandas, Numpy, Pyplot

**CERTIFICATIONS**

Certified by IIT Madras for completing the diploma in programming (16 courses) and the foundation for Data Science (8 courses) as part of the online B.S in data science and applications online degree. Currently pursuing the courses for the second diploma (diploma in Data Science) which will be acquired in the IIT-Madras convocation in May 2023.

The noteworthy courses that are completed and got certified in the B.S degree from IIT Madras includes Business data management, Tools in data science, statistics for data science, Modern mobile application development, Web UI design, Database management systems, Programming in Python, mathematics for data science etc.

Certified by My Captain Online education platform for successfully completing and gaining competence in python programming, mobile app development, web development, data analytics with python certification courses

Obtained the certificate of excellence from coding ninjas for gaining expertise in python programming Secured 94 percentile in Joint entrance examination (JEE)

**LANGUAGES**

English, Tamil