Sarath S

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PROFILE

• An emerging engineer with specialization in Computer and Communication

• Expertise in Java, Python, along with IoT and ML

• Good interpersonal skills with an ability to solve complex problems in teams

• Critical thinking and good debugging skills

• Learn and grow with the organisation while enhancing domain experience

EDUCATION

• **B.Tech.** in **Computer and Communication Eng.**

CGPA – **6.21** / 10 (current)   2020 – (2024)

Amrita School of Engineering,

Amrita Vishwa Vidyapeetham, Coimbatore, TN

• **AISSCE** (11 – 12th Std.)   2018 – 2020

Percentage - **66%**

Vidya Vikas International School, Coimbatore

Subject: Maths, Physics, Chemistry, Biology

• **AISSE** (10th Std.)

2018

Percentage – **67.4%**

Shree Sarasswathi Vidhyaah Mandheer Institution, Coimbatore

TECHNICAL SKILLS

Languages:

Java • Python • C++ • MATLAB • Verilog

Web development:

HTML • CSS • JS

DBMS:

MySQL • Oracle

OS:

Raspbian (Debian Linux) • ARM (x32/x64)

Hardware:

LP2148 • MSP432 • ESP32 • Arduino UNO • Raspberry pi

Office ware:

MS Excel • MS Word • MS PowerPoint • Adobe Photoshop

IDE / Tools:

VS Code • Pycharm • Spyder • KEIL 4 • Proteus 8 • Cisco Packet Tracer • WireShark • AutoCAD

DevOps:

Git • GitHub • Perforce • Docker

API:

REST API • ThingSpeak • AdaFruit

Libraries:

OpenCV • TFLite

LANGUAGES

• English   –   Full Professional proficiency
• Tamil   –   Native proficiency
• Kannada   –   Elementary proficiency

EXTRA CURRICULAR ACTIVITIES

• Badminton
• Tennis
• Cricket

TECHNICAL INTERESTS

• Internet of Things
• Machine Learning
• Web development
• Computer Networks
• Embedded Computing
• VLSI
• Image Processing
• Operating System

ACHIEVEMENTS

• **Runner** – Inter-College Badminton Tournament
  Year: **2022**
  Amrita Vishwa Vidyapeetham, Coimbatore
• **Runner** – Inter-School Cricket Tournament
  Year: **2019**
  Vidya Vikas International School, Coimbatore

CERTIFICATIONS/UPSKILLING

• **MATLAB Onramp (Online)**   2023
  Organizer: **MathWorks**
  Credentials: MatlabAcademy
• **Career Edge- Young Profession (Online)**   2021
  Organizer: **TCS ION**
  Credentials: MatlabAcademy
• **Introduction to AI (Online)**   2021
  Organizer: **IBM**
  Credentials: CourseEra

PROJECTS

• **Product Sorting**
  Feb 2023 – May 2023 **(4 months)**
  Aim: Recognize and sort the product
  Tools: Raspberry Pi, Python, Thonny IDE
  Role: Worked on Image processing and
             conveyor belt
• **Student Management System**
  Sept 2022 – Dec 2022 **(4 months)**
  Aim: Design a system to manage ML/OD/Ordinary
             detail of the students
  Tools: HTML, CSS, JS, MySQL
• **Home Security System**
  Dec 2022 – Feb 2023 **(3 months)**
  Aim: Alert the houseowner when the sensor

       detects intrusion

  Tools: Python, ML classifiers, Raspberry Pi, AdaFruit

  Role: Worked on Hardware Setup and
       Python programming

- **Face Mask Detection**

  Sept 2022 – Dec 2022 **(4 months)**

  Aim: Design a system to alert when a person is not
       wearing a mask

  Tools: Python, Raspberry pi, OpenCV, TFLite
       Thonny IDE, Thingspeak

- **Stock Market Price Prediction**

  Mar 2022 – Jun 2022 **(4 months)**

  Aim: Predict the Stock Market Price trend

  Tools: Python, Spyder IDE, ML classifiers

  Role: Worked on ML techniques

- **GPS with LPC2148**

  Sep 2021 – Dec 2021 **(4 months)**

  Aim: Interface GPS system with LPC2148

  Tools: LPC2148, GPS, KEIL, Proteus

- **Speech to Text conversion**

  Sep 2021 – Dec 2021 **(4 months)**

  Aim: Design a system to convert speech
       input into text output

  Tools: Python