

Madhu Shree Aravindan

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EDUCATION

SRM Institute of Science and Technology Expected Graduation 2026

- B. Tech Computer Science and Engineering CGPA 9.77

The PSBB Millennium School (CBSE)

- 12th Boards Percentage 85.2% **May 2022**
- 10th Boards Percentage 95.4% **May 2020**

RELEVANT COURSEWORK

Programming for Problem-Solving, Object-Oriented Programming, Data Structure and Algorithm, Operating System, Computer Architecture, Advanced Programming Practice

SKILLS

Programming Languages: Python, C++, C, HTML5, JavaScript, CSS3, Java, ARM assembly (basics)

Technologies: VS Code, Jupyter Notebook, NumPy, Pandas, Flask, Google Collab, MongoDB, MySQL, Eclipse

PROJECTS

Book Review Analysis Website | [Github Demo](#) | (Flask, NLTK, HTML, CSS, MongoDB) October 2023

- It's a website that can perform sentiment analysis on book reviews.
- It's developed mainly using NLTK and BeautifulSoup module.
- It web scrapes data from LibraryThing.

GPA Calculator Website | [Github Demo](#) | (Java, JSP, CSS, MySQL) October 2023

- Built a grading system to calculate CGPA and GPA.

Car Price Detection System | [Github Demo](#) | (Python) June 2023

- Built a Linear regression model (63% accuracy) that can predict the price of a car with given brand.
- Developed this project using sci-kit learn.
- Built on Kaggle using Kaggle dataset.

File Compression | (C++, VS Code) April 2023

- Built a file compression system using Huffman Algorithm as a team of 3.

Image-Steganography | [Github Demo](#) | (Python, Google Collab) November 2022

- Built an algorithm which can encode and decode text from an image.
- Security has also been incorporated, the text cannot be set and retrieved without a password.

RESEARCH PAPER

Dementia Care Using AI Real time Patient Trajectory Monitoring System November 2023

- Conducted by RMKMATE 2023 IEEE international conference.
- Working as an assistant under seniors to build a robust real time patient trajectory monitoring system.

ACHIEVEMENTS

Intensity-based LED Lamp | Techknow | SRMIST | (Arduino UNO, LEDs, Photodiodes) April 2023

- Won Best Project Award for building an LED lamp using Arduino for Techknow.
- Lead a team of 9 people to build this project.
- The color of the light changes based on the intensity of sunlight.
- The purpose is to detect the right intensity of light for plants.

Microsoft Azure AI Fundamentals March 2023

- Passed Azure AI 900 Exam with 85.7%

Quiz App Development | IAEMP | (Scratch) December 2020

- Won Third Prize for building a Quiz app based on environment management using Scratch.
- Organized by IAEMP with Rotary Coimbatore Gaalaxy.

COURSES

Coursera June 2023

- Supervised Machine Learning Specialization (Stanford | DeepLearning.AI)

IBM (EDX) June 2023

- Introduction to Web Development with HTML5, CSS3 and JavaScript

NPTEL April 2023

- Introduction To Machine Learning (IITM)

Coursera October 2022

- C Programming Fundamentals (Duke University)