Hariharan Sp

Fresher

An ambitious and enthusiastic engineering 3rd-year student with a passion for developing my skills in Generative AI and seeking opportunities to gain practical experience while pursuing my degree and seeking opportunities to develop my skills in Embedded Software Development and to develop my innovations to create AI/ML integrated Embeded Systems solutions that make an impact.

Contact

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PortFolio
https://hari417.github.io/Portfolio/Homepage.html

LinkedIn
www.linkedin.com/in/hariharan-sp417

GitHub
https://github.com/Hari417

Education

2022
CBSE class 12
Sri Chaitanya Techno School Pallavaram

2026
BE ECE
St Joseph's College Of Engieering

202X
BS Data Science
IIT-Madras

Skills & Experiences

- Python, MATLAB, & C
- PSpice, and Altium
- Machine Learning
- Data Analysis
- Linux Basics
- Basic Soldering
- Working with Raspberry Pi, Arduino and ESP modules

Test Scores

JEE Main - 91.19 percentile
CBSE 12th - 445/500
CBSE 10th - 412/500
CGPA -SJCE - 8.22
CGPA DS - 8.0

Profile

I'm a pre-final year student at St. Joseph's College of Engineering, pursuing a dual degree in Electronics and Communication Engineering (ECE) and a Bachelor of Science in Data Science at IIT Madras. My academic journey has equipped me with a robust foundation in machine learning, data analysis, and electronics, along with practical experience working with platforms like Arduino and Raspberry Pi.

I am passionate about leveraging generative AI to create innovative solutions that address real-world problems. My hands-on experience with machine learning algorithms, coupled with a keen interest in exploring cutting-edge AI technologies, drives my enthusiasm for contributing to impactful projects. I look forward to applying my skills and expanding my knowledge as an Intern, collaborating on transformative technologies in a dynamic environment.

Experience:

- Built an AI assistant using OpenAI Whisper for voice recognition, Tiny LLaMA for text generation, and Coqui TTS for text-to-voice
- Integrated text-to-speech for real-time user interaction and GPIO-based triggers for automation.
- Developed and implemented hardware systems using Raspberry Pi 5, including interfacing with APM 2.8 for autonomous drone systems.
- Designed and implemented a self-balancing system using **Arduino** and MPU-6050.
- Fluent in **Python, C, Pandas,** Numpy, sk-learn, and MatplotLib

Certifications

- Coursera Introduction to Front-End Development(meta)
- Data Analysis with Python(IBM)
- Machine Learning with Python(IBM)
- Python Programming -01
- HTML, CSS, and JavaScript for Web Developers (John Hopkins University)

Languages

English, Tamil, Hindi

Projects

- Autonomous Drone System for Rescue Operations
- Person Detection using Deep Learning
- AWTRIS(ongoing Project) - Multi vehicle trash collection system (**Drone** and Boat)