





Suresh R

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 dev-suresh.me

EDUCATION

BE Computer Science and Engineering, 2021 – 2025 | CGPA - 7.96
Coimbatore Institute of Technology

SKILLS

Languages: Python, C, SQL, HTML, CSS

Frameworks and Tools: Django, Tailwind CSS, Git, Github, MySQL, Ansible, Jenkins

Core: DSA, CN, OOPS, OS

Platforms: Linux, Windows

Soft Skills: Event management, Team work, Problem Solving

PROFESSIONAL EXPERIENCE

Machine Learning Intern, Techvolt Software Aug 2023 | Coimbatore

- Mastered Python fundamentals and gained expertise in object-oriented programming(OOP) to design modular, scalable code.
- Developed Machine Learning models with more accuracy and worked with libraries like Numpy, pandas.
- Created a Music Recommendation System based on similarity search and clustering algorithm.

PROJECTS

Baby Vision Pro Jul 2024

- Developed a Powerful and Smart Baby Monitoring System in IoT that performs **Live Streaming** of baby room through **Flask server** with minimal data loss and high video quality.
- Performed Cry Detection, Baby detection with **YOLO**, analysed Room temperature and humidity with DHT11 sensors and stored them in **InfluxDB**.
- Successfully sent notifications to website with the help of **MQTT Protocol**, **EMQX Broker**, **Pusher API** and SMS to parents with the help of **Twilio API**.
- Created website in **Django** that shows live stream, captured videos, notifications and provided a **Real-Time Dashboard** that shows analysed data sent through **websocket**, refreshes every **2seconds**.

Tech Stack: Raspberry Pi, Python, Django, Flask, InfluxDB, Bash, MQTT, Websockets.


Music Recommendation System  Aug 2023


- Developed a Music Recommendation System that recommends songs based on the audio features like loudness, melody.
- Implemented two algorithms, one with **Cosine Similarity**, another with **K-Means Clustering** providing accuracy of 90% and 98%.
- Used Anvil to provide front-end, Google Colab as backend.

Tech Stack: Python, Anvil, Scikit Learn, Google Colab.

CERTIFICATES

Using Python to Interact with the Operating System  — Google

Python Essentials 1 and 2  — Cisco - Skills for All

Supervised Machine Learning: Regression and Classification  — Stanford University

POSITION OF RESPONSIBILITY

Debugging Event Head - Cryptera 2k24, National level technical symposium, Department of CSE