Education

•PSG College of Technology, Coimbatore

2022-26

Bachelor of Technology in Information Technology

CGPA: 9.07

•Literacy Mission Matric Higher Secondary School, Samalapuram

2021-22

Higher Secondary Second Year (HSC-II)

97.8 %

Experience

•Samsung Prism - Virtual Intern

Mar 2024 - Present

Improve SOTA Segmentation Model for Dichotomous Image Segmentation

Online

- Implemented **SegNet** model for **Dichotomous Image Segmentation** and utilized DUTS Object Detection Dataset.
- Analyzed the accuracy of the model for various loss and cost functions.
- Planned to develop a **hybrid model** which can increase the accuracy of Dichotomous Image Segmentation.
- Technology Used: **TensorFlow**

•Venmurasu Programming Team - Virtual Intern

Oct 2023 - Jan 2024

Static Site Generator for tamil.wiki site

Online

- Generated static site replicating tamil.wiki site using **HUGO**.
- Converted the scrapped content to Markdown format using **Pandoc**.
- Designed HUGO template for generating the static sites.
- Static Site can reduce the loading time by 85% and costs by 70%.

Personal Projects

•Artisan | Project Link

A website where artists can showcase their talent and sell their works.

- Artists can upload, edit, and delete their works and other registered users can buy the artworks.
- Implemented diverse **API endpoints** to provide essential functionalities.
- Employed JSON Web Token(JWT) for user authentication and enhancing security.
- Used **Multer** for efficient storage of uploaded images on the backend.
- Technology Used: ReactJs, NodeJs, ExpressJs, MongoDB

• Poseidon | Project Link

A billing management system built using Java Swing.

- Implemented CRUD operations to efficiently handle customer and product data, ensuring flexibility and ease of use.
- Integrated **user authentication** mechanisms utilizing username and password, enhancing security and access control.
- Utilized PDF format for **bill generation** within the application.
- Technology Used: Java Swing, JDBC, MySQL

•Fall Detection using Pose Estimation | Project Link

A model which detects falls based on Pose Estimation and Motion Analysis.

- Person's poses are plotted with the help of Mediapipe.
- Also integrated Face Recognition and Fire Detection.
- Technology Used: Python, OpenCV, Mediapipe

Technical Skills

Languages: Java, Python, JavaScript, C, HTML+CSS

Frameworks: ReactJs, NodeJs, ExpressJs

Databases: MongoDB, Relational Database(MySQL)

Tools: VScode, Git, Github, Google Colab

Relevent Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Object Oriented

Programming, Database Management System.

Soft Skills: Problem Solving, Self-learning, Presentation

Achievements