Mahesh Paul J

Undergrad Student

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https://github.com/maheshpaulj

Professional Summary

Tech Enthusiast CS student at SRM University, Kattankulathur with a passion for technology. Possesses strong foundational skills in Python, C, and web development gained through coursework and personal projects. Eager to leverage these skills and thirst for knowledge in a real-world internship. Committed to actively contributing to projects and collaborating eff ectively within a team environment.

Projects

NoteScape

https://notescape.vercel.app/

- Developed **NoteScape**, an AI-powered collaborative note-taking app with advanced features.
- Integrated Meta's **Llama model** for smart translation and context-aware Q&A functionalities.
- Implemented **real-time collaboration** with live cursors and shared editing for seamless teamwork using LiveBlocks.
- Designed and developed using **Next.js** (frontend), **Firebase** (database) and **Cloudflare Workers** (backend) for scalability and security.

ResumeItNow

https://resumeitnow.vercel.app/

ResumeItNow - Free Open Source Resume Builder

- Utilizes AI to generate content and create a perfect resume.
- Offers 100% free, watermark-free resume building.
- Provides a selection of clean, professional templates.
- This **Resume is built using ResumeItNow**, a reliable and efficient platform.

Website Portfolio

https://maheshpaul.is-a.dev/

- Created a visually appealing online portfolio using **NextJS** for a dynamic and interactive experience.
- Utilized **Framer Motion** and **gsap** to add fluid animations and made the website lively with smooth transitions.
- Leveraged **Vercel** for seamless deployment, ensuring my portfolio is readily accessible to potential employers and collaborators.

Traffic Light Detection System

https://github.com/maheshpaulj/Traffic-Light-Detection-YOLOv8

- Developed AI-powered Traffic Light Detection model utilizing **Haar Cascade** and **YOLOv8** architectures
- Utilized Colab with **Keras** and **TensorFlow** libraries for model training and deployment
- **Roboflow** was used to maintain the dataset.

Lane Detection using YOLO and OpenCV *https://github.com/maheshpaulj/Lane_Detection*

- Real-time Lane and Vehicle Detection, Utilized **YOLOv8** and **OpenCV** to identify lanes and - vehicles, with distance estimation.
- **Autonomous Driving and Traffic Analysis**: Ideal for applications requiring precise vehicle tracking and lane detection capabilities.

Education

M.Tech Computer Science w/s Cognitive Computing *June 2022 - May 2027*

SRM Institute of Science and Technology
GPA: 9.07/10

Skills

Programming Languages : Python, C, C++, TypeScript, JavaScript, Java

Machine Learning Frameworks : Numpy, Pandas, OpenCV, YOLO, Keras

Web Development : HTML, CSS, ReactJS, NextJS, TailwindCSS, APi Integration, AI Integration

Certifications

Programming For Data Science *February 2023*
NPTEL

Programming in Java *October 2023*
NPTEL

Introduction to Database Systems *April 2024*
NPTEL

Introduction to Machine Learning *October 2025*
NPTEL