Sharmika Murugan

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Portfolio : https://sharmika-portfolio.netlify.app/
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SUMMARY

Dedicated engineering student specializing in Computer Science, with a strong academic record and hands on software development experience. I have a proven track record of leading projects to success, including developing AI-driven accessibility tools. My technical proficiency spans multiple programming languages and frameworks and I possess excellent soft skills that aid my ability to collaborate effectively in team settings

EDUCATION

- **St. Joseph College of Engineering,** Chennai, India
  Bachelor of Engineering - Computer Science and Engineering; GPA: 8.33 *Oct 2021 - May 2025*
  Courses: *Operating Systems, Data Structures, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

SKILLS SUMMARY

- **Languages**: Java, Python, C++, SQL
- **Web technologies:** HTML, CSS, JavaScript
- **Frameworks**: Bootstrap, Spring Boot, Hibernate, TensorFlow, Flask, React.js, OpenCV
- **Tools**: VS Code, Eclipse IDE, Git, PostgreSQL, MySQL, SQLite
- **Platforms**: Linux, Mac, Windows,
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management.

PROJECTS

Project 1:Travel Bus Reservation Model *(Demo)*

Standalone App

- Developed logic for a travel bus reservation system including bus names, seat availability, etc.
- Built a user input form for travel date and passenger name.
- Developed logic to check seat availability.
- Executed the code to book seats based on availability.

Project 2: Front-end Development Project Link

Food E-commerce website

- Developed and deployed a full-fledged Food e-commerce interface drawing inspiration from giants like KFC, Swiggy, and Zomato.
- Constructed landing pages for product, contact, and cart.
- Designed an attractive interface for my website with vibrant, minimalistic color patterns.
- Executed it using Git and GitHub.

Project 3: SignMeet – AI-Based Accessibility Tool Demo

SignMeet — Project under the Naan Mudhalvan Government Initiative

- Built a real-time communication system on virtual platforms for hearing and speech-impaired users.
- Used sign language recognition and speech-to-text for seamless two-way interaction.
- Designed for inclusivity, low-latency performance, and ease of use.

PUBLICATIONS

- **AI-Powered Accessibility System – *International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST), Vol. 11, Issue 3 (Paper Link)*** *March 2025*
  Developed and published a research paper on an AI-driven solution enabling real-time communication for hearing- and speech-impaired users on virtual platforms.
  Technologies Used: Python, OpenCV, MediaPipe, TensorFlow, Natural Language Processing (NLP), Google Cloud APIs, WebRTC

Achievements

- **AI-Powered Accessibility for Hearing and Speech-Impaired Communication**
  Under Naan Mudhalvan Government Initiative
- *Selected for the **Tamil Nadu Government's Naan Mudhalvan Skill Development Program**, recognizing technical proficiency and leadership potential among top-performing engineering students.*

VOLUNTEER EXPERIENCE

Symposium Coordinator

- Led the organization of technical workshops and coding challenges for 30% participants.

Code Club Coordinator

- Led a team of club members in organizing coding workshops, hackathons, and coding challenges for students.