

SURENTHIRAN M

Aspiring Software Engineer | FullStack & AI/ML Developer | Creative Problem Solver

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SUMMARY

Aspiring software engineer with a strong foundation in **Fullstack development, AI/ML, and web technologies**. Proficient in **data structures & algorithms, database management, and problem-solving**, with a passion for building scalable and efficient systems. Committed to leveraging technology to create **impactful and accessible solutions** while continuously learning and growing in a dynamic environment

PROFESSIONAL EXPERIENCE

AI Model Developer

Electricity Peak Demand Prediction Using AI (SECE Thiran' 25 Finalist Project)

02/2025 Coimbatore, India

- Developed and optimized an AI model using **Random Forest Regressor**, improving accuracy with a structured dataset.
- Automated **data collection via web scraping**, enhancing prediction reliability by 50%.

Backend Developer

Eco-Scope App (48-Hour Hackathon Project)

10/2024 Coimbatore, India

- Boosted **data processing speed by 30%** by designing an optimized **SQLite + Express.js backend**.
- Engineered a scalable API for real-time environmental impact assessment.

EDUCATION

B.E. Computer Science & Engineering (II Year)

Sri Krishna College of Engineering and Technology, Coimbatore

CGPA

8.46 / 10

SKILLS

Cloud & DevOps

AWS, GCP, Docker

AI/ML

TensorFlow, OpenCV, LM Studio

Web Development

React, Node.js/Express, REST API, Tailwind CSS, HTML, CSS

Programming Languages

C++, C, JAVA, Python, JavaScript, TypeScript, SQL, Bash Script

Version Control and Tools

Git/GitHub, VS Code, Figma, Jupyter lab, Linux

Soft Skills

Problem Solving, Critical Thinking, Communication, Leadership, Adaptability, Time Management

PROJECTS

Electricity Peak Demand Prediction Using AI (Random Forest)

Developed an AI model using **Random Forest Regressor** with **React** Frontend to accurately predict electricity peak demand, optimizing grid stability and cost efficiency.

Environmental Impact Assessment App (Eco Scope)

🔗 https://github.com/Surendhiran-46/Code-Catalysts

Designed an app to **analyze and assess environmental impact**, providing data-driven insights for sustainable decision-making.

AI Chatbot (React and LM Studio)

Developed an **AI-powered chatbot** using **React and LM Studio**, enabling dynamic and context-aware human-like conversations.

PROJECTS

FreshCart – Grocery Shopping App

🔗 <https://github.com/Surendhiran249/React-Course>

Developed a modern grocery shopping application using React and Material-UI (MUI), enabling users to search products, manage carts, and simulate payment.

OpenCV Projects

Face Detection, Facial Emotion Recognition, Object Detection using Yolov8 – Color-Based & General

CERTIFICATION

365 Days Badge

Leetcode

Fundamental AI Concepts

Microsoft Learn

SQL (Basic)

HackerRank

Design Thinking - A Primer (2024)

NPTEL

AWS Cloud Practitioner Essentials

AWS

Problem Solving (Basic)

HackerRank

Emotional Intelligence - Elite Plus (2024)

NPTEL

Fundamentals of Digital Marketing (2021)

Google Digital Unlocked Certification

ACHIEVEMENTS

Finalist – SECE Thiran '25 (2025)

LeetCode Streak – 350+ Days | 400+ Problems Solved

Consistent Streak – Coding Ninjas (Ongoing)

Top 10 Finalist – Iam Neo Hackathon (2024)

100-Day Streak – GeeksforGeeks

LANGUAGES

Tamil	Native	English	Proficient	Japanese	Intermediate
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