SELVAGANESH

📍 Tiruppur,India

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

✉ selvavelayutham395@gmail.com   [in] LinkedIn   ◈ Github

📋 CAREER OBJECTIVE

Motivated and adaptable individual with a strong desire to learn and grow in any professional environment. Committed to delivering high-quality work, managing time efficiently, and collaborating effectively with teams. Passionate about continuous learning, taking initiative, and contributing to meaningful projects that drive success in a dynamic and fast-paced work environment.

🎓 EDUCATION

Bachelor of Technology	CGPA: 7.2 (Till 5th Semester)
Bannari Amman Institute of Technology, Sathyamangalam	2022-2026
Diploma in Electrical and Electronics Engineering (DEEE)	83.41%
PSG Polytechnic College	2020-2023
SSLC	2019-2020
Sakthi Vigneswara Kalvi nilayam Higher secondary School	76.4%

⚙ TECHNICAL SKILLS

Programing Languages:

- C
- Python
- Java

Web Development Tools:

- HTML,CSS,Java Script
- Visual Studio
- Figma

Machine Learning

- LSTM
- Randam Forest
- CNN

Areas of Interest:

- Web Design and Development
- UI and UX
- Machine Learning fields

🧩 SOFT SKILLS

- Problem Solving
- Presentation
- Self-learning
- Adaptability

🌐 LANGUAGES KNOWN

- Tamil (R,W,S)
- English (R,W,S)

👉 PROJECTS

👉 2048 Game – JavaScript

- Revamped the popular 2048 puzzle game using HTML, CSS & JS. Improved UI/UX and optimized game logic.
- Implemented responsive design for mobile and desktop compatibility.
- Enhanced tile merging logic and scoring mechanism for better gameplay.

Tech Used: JavaScript, HTML, CSS

GitHub: 2048-Game-using-Java-script

👉 PDF File Converter Telegram Bot

- Built a Telegram bot that converts files between PDF, Word, Images, and more using Python automation libraries.
- Added support for splitting/merging PDFs and converting images to/from PDFs.
- Enabled interactive file handling with real-time bot responses and error handling.

Tech Used: Python, PyPDF2, python-telegram-bot

GitHub: PDF-file-converter-bot

👉 EV Battery Management System using Deep Learning (DL)

- Developed a deep learning model for real-time monitoring and health prediction of EV batteries.
- Integrated advanced metrics for state of charge (SoC) and state of health (SoH) estimation.
- Conducted model training and evaluation on real-time and synthetic battery datasets.

Tech Used: Python, TensorFlow, Numpy, Keras

GitHub: EV-Battery-Management-System-using-Deep-Learning

👉 Road Traffic Prediction using Machine Learning (ML)

- Predicted traffic patterns using weather/time-based features.
- Trained model using Random Forest with preprocessed datasets.

Tech Used: Numpy, Scikit-learn, Pandas

GitHub: Road-Traffic-Prediction-using-Machine-Learning

🪪 ADDITIONAL INFORMATION

- **Oracle Cloud Infrastructure 2025 Certified** – Gained hands-on experience in cloud compute, networking, and storage services
- **Machine Learning Deployment with Docker** – Completed a one-credit course, learning containerization, Dockerfile creation, and deploying ML projects in scalable cloud environments.
- **Build Your Own Generative AI Model Workshop** by AI Expert and IIT Delhi alumnus, Mr. Trivikrama, on the NXT Wave Platform. Gained hands-on experience in generative AI model development.
- **Python for Scientific Computing – freeCodeCamp** – Completed a structured Python course covering data types, control flow, functions, file handling, and working with libraries like NumPy and Pandas