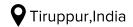
SELVAGANESH



ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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<u>LinkedIn</u>

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 Bannari Amman Institute of Technology, Sathyamangalam	CGPA: 7.2 (Till 5th Semester) 2022-2026
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

M LANGUAGES KNOWN

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



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

F 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
- <u>Machine Learning Deployment with Docker</u> Completed a one-credit course, learning containerization, Dockerfile creation, and deploying ML projects in scalable cloud environments.
- <u>Build Your Own Generative Al Model Workshop</u> by Al Expert and IIT Delhi alumnus, Mr. Trivikrama, on the NXT Wave Platform. Gained hands-on experience in generative Al model development.
- <u>Python for Scientific Computing freeCodeCamp</u> Completed a structured Python course covering data types, control flow, functions, file handling, and working with libraries like NumPy and Pandas