



SELVAGANESH V

Artificial Intelligence and Machine Learning

Career Objective

Motivated and adaptable individual with a strong desire to learn and grow in professional environments. Passionate about continuous learning, problem solving, and contributing to meaningful projects. I focus on building solutions that are technically strong and user-friendly.

Projects

Movie Emotional Connect Recommendation — Python

Developed a movie recommendation system that suggests films based on user emotions and language preferences. Integrated **Azure Open-AI**, **OMDb API**, and **Watch-mode API** for mood-based recommendations, streaming availability, and metadata. Deployed using **Fast-API** with a clean HTML front-end for multilingual support.

PDF File Converter Telegram Bot — Python

Developed a Telegram bot in **Python** to automate PDF tasks: split, merge, image-to-PDF, and PDF-to-images. Used **PyPDF2** and **Poppler for Windows**. Added interactive commands and ZIP export. Ensured reliable mobile usage with error handling and file size optimization.

Emotion Detection in Text — Python, BERT Model

Developed an **NLP-based model** to classify emotions in text data using pre-processing, feature extraction, and deep learning models. Implemented with **Python**, **TensorFlow**, and **NLTK**, focusing on real-world applications in sentiment and behavior analysis.

EV Battery Management System (Deep Learning)

Implemented deep learning models in **TensorFlow** and **Keras** with LSTM networks to predict State of Charge (SoC) and State of Health (SoH). Built a lightweight **Gradio** interface for real-time monitoring. Contributed to sustainable technology by improving EV battery efficiency insights.

Education

B.Tech, Artificial Intelligence & Machine Learning

2022–2026

Bannari Amman Institute of Technology, Sathyamangalam CGPA: 7.3 (till 6th Sem)

Diploma in Electrical & Electronics Engineering

2020–2023

PSG Polytechnic College, Coimbatore Percentage: 83.41%

SSLC

2019–2020

Sakthi Vigneswara Kalvi Nilayam Hr.Sec.School, Tiruppur Percentage: 76.4%

Certifications & Participations

- Oracle Cloud Infrastructure 2025 Certified
- Machine Learning Deployment with Docker
- Generative AI Workshop (NXT Wave, IIT Delhi alumnus)
- Python for Scientific Computing — freeCodeCamp

Personal Info

✉ selvavelayutham395@gmail.com

📍 Tiruppur, India

Links

🌐 LinkedIn

🔄 GitHub

🔗 Portfolio

Professional Skills

Programming Languages

- 🔗 C, Python, Java

Web Development & Tools

- 🌐 HTML, CSS, JavaScript
- 🖥️ Visual Studio Code
- 🎨 Figma - UI/UX

Machine Learning & AI

- 🧠 LSTM, Random Forest, CNN
- 🔧 Model Deployment with Docker
- ☁️ Cloud Computing

Soft Skills

- ⚙️ Problem Solving, Adaptability
- 👤 Presentation, Self-learning
- 👥 Teamwork, UI/UX

Languages

- 🇮🇳 Tamil (R,W,S)
- 🇬🇧 English (R,W,S)