



# 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

1. Oracle Cloud Infrastructure 2025 Certified
2. Machine Learning Deployment with Docker
3. Generative AI Workshop (NXT Wave, IIT Delhi alumnus)
4. 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)

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