# SELVAGANESH V

Artificial Intelligence and Machine Learning

## Personal Info

✉ selvavelayutham395@gmail.com

📍 Tiruppur, India

## Links

in 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)

## 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 & Participation

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