Personal Info

- ✉ selvavelayutham395@gmail.com
- 📍 Tiruppur, India

Links

- 🔗 LinkedIn
- 🐙 GitHub
- </> Portfolio

Professional Skills

Programming Languages
- </> Python, C, Java

Web Development & Tools
- 🌐 HTML, CSS, JavaScript
- 🖥 Visual Studio Code
- N8N (Workflow Automation Tool)

Machine Learning & Cloud
- 🧠 LSTM, Random Forest, CNN
- 🐳 Backend deployment with Docker
- ☁ Cloud Computing

Soft Skills
- ⚙ Problem Solving, Adaptability
- 🗣 Presentation, Self-learning
- 👥 Teamwork

Languages

- 🔤 Tamil (R,W,S)
- 🔤 English (R,W,S)

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

PDF-RAG-Application — Python
Developed a Retrieval-Augmented Generation (RAG) application that enables users to upload and query PDF documents interactively. Implemented semantic search using **SentenceTransformers** for embeddings and **FAISS** for efficient similarity search. Built an intuitive interface with **Gradio** for seamless PDF upload and querying. Designed the system to handle large documents asynchronously with minimal dependencies, running securely in a local environment.

Emotion Detection in Text — Python, Hugging Face NLP
Developed a multilingual emotion detection system using **Hugging Face Transformers** to classify text as **Positive, Negative, or Neutral**. Integrated **automatic language detection and translation** for seamless multi-language support. Leveraged the **twitter-roberta-base-sentiment** model for accurate sentiment prediction. Built an interactive **Gradio** web interface for real-time analysis and easy deployment. Applied to real-world use cases including **social media monitoring and user feedback analysis**.

PDF File Converter Telegram Bot — Python
Built a feature-rich **Telegram bot** to automate PDF and document conversions directly through chat. Implemented functionalities including **PDF to Word, Word to PDF, PDF splitting, image to PDF, and PDF to image conversion**. Used **PyPDF2, pdf2docx, pdf2image, and Pillow** for document processing. Enabled ZIP downloads and optimized file handling for mobile users. Ensured robust error handling, secure file management, and cross-platform compatibility.

Education

B.Tech, Artificial Intelligence & Machine Learning *2022–2026*
Bannari Amman Institute of Technology, Sathyamangalam CGPA: 7.37 (till 7th 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)