

SARUJAN THIRUNAVUKKARASU

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Profile

A motivated Computer Engineering student at the University of Jaffna with strong problem-solving and analytical skills. Experienced in programming, machine learning, and AI models. Eager to apply technical skills and contribute to real-world projects through an internship opportunity.

Education

University of Jaffna, Sri Lanka

April 2022 – Present

B.Sc.Eng (Hons) in Computer Engineering

- CGPA: 3.67/4.0 (up to 5th semester)

V/Vipulanantha College

2007 – 2020

G.C.E. Advanced & Ordinary Levels

- **Advanced Level:** Combined Mathematics: A | Chemistry: B | Physics: C
- **Ordinary Level:** 8 A's and B

Technical Strengths

Programming Languages

C++, Java, Python, MATLAB

Web Development

HTML, CSS, JavaScript

Database Management

SQL

Version Control

Git, GitHub

Machine Learning & Deep Learning

Pandas, Numpy, TensorFlow, scikit-learn, PyTorch, OpenCV

Natural Language Processing

Hugging Face Transformers, spaCy, Unsloth, LLMs

Projects & Experience

Participant – CODESTROM 2.0 Coding Competition

Aug 2024

Yarl IT Hub

- Solved algorithmic challenges in a competitive, team-based environment.

Game Development (Personal Project - Python & Pygame)

Nov 2024

- Learned to manage game states, user input, and animations.

github.com/Sarujan003 🔗

AI Coding Assistant (Personal Project)

July 2025

- Built an interactive coding assistant UI with Gradio, integrating Qwen2.5-coder via Ollama's server. Implemented chat session state, streamed LLM responses, and user-friendly UX.
- **Technologies:** Python, Gradio, Ollama, Kaggle GPU, Google colab, ngrok.

github.com/Sarujan003 🔗

AI for Product Data Extraction (Personal Project)

July 2025

- Fine-tuned a Mistral-7B AI model to automatically extract key attributes like brand, color, and material into a structured JSON format.
- Built a custom dataset and used memory-efficient QLoRA techniques to train the model.
- **Technologies:** Python, PyTorch, Transformers, Unsloth, PEFT.

github.com/Sarujan003 🔗

Final Year Research Project – Text Assistant for Product Search

Ongoing

University of Jaffna

- Developing an intelligent assistant to enhance product search accuracy in e-commerce platforms.
- Leveraging natural language processing (NLP) to interpret and process complex customer queries.
- Designing adaptive questioning to resolve query ambiguity and identify user preference.

Licenses & Certifications

Fundamentals of LLMs [↗](#)

June 2025

Hugging Face

OpenCV Bootcamp [↗](#)

Oct 2024

OpenCV University

Languages

English Professional Proficiency

Tamil Native

References

Dr. Pratheeba Jeyanathan [↗](#)

Head of the Department

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Dr. Jananie Jarachanthan [↗](#)

Senior Lecturer

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