



THAMIZHARASU SARAVANAN

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Executive Summary

Aspiring Artificial Intelligence and Machine Learning enthusiast with a B. Tech in Information Technology and a strong foundation in data-driven problem-solving. Experienced in implementing deep learning models with practical exposure to Python-based AI frameworks. Demonstrates a keen interest in research and innovation, backed by hands-on technical internships in both clinical and industrial environments. Eager to contribute technical expertise and analytical skills to forward-thinking organizations focused on AI/ML advancements.

Education

B.Tech. Information Technology (IT), <i>Puducherry Technological University, Puducherry, India</i>	<i>[2022 Nov -present]</i> CGPA (9.6 up to 5th Semester / Current 7th Semester)
HSC, <i>Sri Sankara Vidyalaya Mat. Hr. Sec. School, Puducherry, India</i>	<i>[2021-2022]</i> 93.2%
SSLC, <i>Sri Sankara Vidyalaya Mat. Hr. Sec. School, Puducherry, India</i>	<i>[2019-2020]</i> 94.6%

Work Experience

Project Intern, <i>JIPMER Puducherry</i>	<i>(March 2025 - Present)</i>
<ul style="list-style-type: none">Developed an end-to-end pipeline for preprocessing CT scan images and training CNN/Transformer models for segmenting liver, tumour, and vascular structures.Utilized 3D Slicer to visualize segmented anatomical regions, enabling effective analysis and interpretation by medical professionals.	
Intern, <i>Manatec Electronics Pvt Ltd</i>	<i>(May 2024 - Jun 2024)</i>
<ul style="list-style-type: none">Demonstrated a high level of proficiency and commitment to the project "Parameter checking for Wheel Alignment."	

Software Skills

Python (*Core Python, Flask, Streamlit*)
Data science (*NumPy, Pandas, Seaborn, Matplotlib*)
Machine Learning (*Scikit-learn, PyTorch*)
C/C++/Java Programming – (*Data structures, OOPS*)
Web Development (Basics): (*HTML, CSS, JavaScript (Basics), MySQL, React Framework (Basics),*
JAVA(Core JAVA, Spring Boot Framework - Basics))

Projects

Autonomous DevSecOps Pipeline for Microservices, *[Academic Project]*

- Built an AI-powered DevSecOps Pipeline with automated vulnerability detection, remediation, and GitOps-based CI/CD workflows.
- Automated GitHub pull request for security fixes and deployed secure microservices on Kubernetes clusters.
- Tech stack: Fast API, React, GitHub Actions, SonarQube, Kubernetes, Groq API

End to End Solar Power Efficiency Prediction Pipeline, *[Personal Project]*

- A robust, modular, and production-ready platform for solar power system data analysis, machine learning, and prediction.
- This project enables end-to-end workflows from data ingestion and EDA to model training, deployment, and inference—all with experiment tracking and a user-friendly web interface.
- Tech stack: ZenML, ML-Flow, Streamlit

PyEdit, *[Personal Project]*

- A terminal-based AI powered text editor inspired by Vim, implemented in Python.
- Has dedicated commands like refactor, doc, explain, nl2code, translate, etc.
- This is designed for speed, efficiency, and extensibility, making it a great choice for developers who love working in the terminal.
- Tech stack: Pure Python, Curses(library), Gemini API, etc.

Courses

Joy of Computing Using Python, NPTEL, IIT Ropar	[Sep'2024]
Data Science with Python, FITA-Puducherry	[Aug'2024]
Introduction to Cognitive Psychology, NPTEL, IIT Guwahati	[Apr'2024]
Diploma in Full Stack JAVA Development, CSEC-Puducherry	[Jan'2024]
Certificate Course in Python, CSEC-Puducherry	[Dec'2023]
Diploma in J2EE Programming, CSEC-Puducherry	[Dec'2022]
Diploma in Computer Application, CSEC-Puducherry	[Sep'2019]

Workshops & Hackathons

Workshop on Augmented Reality, NEURA 2023- Puducherry technological University
Workshop on Full Stack development, ICON 2023- Puducherry technological University

Intel Gen-AI Hackathon, GenAI Hackathon 2024- KPR Institute of Engineering and Technology
Industrial Hackathon, SHAASTRA 2025- IIT Madras
AWS ML Ascend Challenge – 2nd Edition, 2025 – Zelestra

Competencies

- | | |
|---|---|
|  Problem Solving |  Quick Learner |
|  Team Player |  Critical Thinking |