THAMIZHARASU SARAVANAN

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Profile

I am an Engineering enthusiast and an IT student. Machine Learning and Full Stack Development is my area of interest. I like challenging real-life problems.

Education

B.Tech. Information Technology (IT),   Puducherry, India

Puducherry Technological University [2022 Nov -present]

CGPA – 9.55* Semester (1-4)/ Current: 6th Semester

HSC,   Puducherry, India

Sri Sankara Vidyalaya Mat. Hr. Sec. School [2022 Apr]

Percentage – 94.333

SSLC,   Puducherry, India

Sri Sankara Vidyalaya Mat. Hr. Sec. School [2022 Apr]

Percentage – 94.333

Skills

Python *(Core Python, sqlite3, Tkinter, Flask)*

C/C++/Java Programming *(Data structures, OOPS)*

Web Development *(HTML, CSS, JavaScript (Basics), MySQL, React Framework (Basics), Java (core JAVA, JSP, servlets), Spring Boot Framework)*

Data science *(NumPy, Pandas, Beautiful Soup, Seaborn, Matplotlib)*

Machine Learning *(Scikit-learn, PyTorch)*

Projects

3D Liver, Tumor and Vascular Structure Segmentation, *[JIPMER, Puducherry]*
- Segmentation of Liver, Tumor, Arteries and Veins from patient's CT-SCAN DICOM images.
- 3D reconstruction of the Segmented Liver, Tumor, Arteries and Veins for Medical Use.
- Tech stack: PyTorch, 3D UNET, 3D Slicer, Matplotlib

End to End Wine Quality Prediction Pipeline, *[Personal Project]*
- A Comprehensive machine learning solution that predicts red wine quality based on its physicochemical properties.

- This project takes structured approach, covering the entire ML lifecycle from data ingestion to deployment in a production-ready environment.
- Tech stack: Pandas, Sci-Kit Learn, Flask

Image Enhancing Using SRCNN, *[Personal Project]*
- Enhancing low-resolution images with AI-Powered Super-Resolution Convolutional Neural Network (SRCNN) Architecture
- This project features a step-by-step implementation, image processing with OpenCV and evaluation using PSNR, MSE and SSIM.
- Tech stack: CNN(s), SRCNN, OpenCV, etc.

Work Experiences

Project Intern, *JIPMER Puducherry (March 2025 - Present)*
- Working on 3D Segmentation and 3D reconstruction of Liver, Tumor and Vascular structures from CT Scan Images using Segmentation Architectures.

Intern, *Manatec Electronics Pvt Ltd. (May 2024 – Jun 2024)*
- Demonstrated a high level of proficiency and commitment to the project "Parameter checking for Wheel Alignment".

Courses

Introduction to Cognitive Psychology, *NPTEL, IIT Guwahati*
Joy of Computing Using Python, *NPTEL, IIT Ropar*
Data Science with Python, *FITA-Puducherry*
Diploma in Computer Application, *CSEC-Puducherry*
Diploma in J2EE Programming, *CSEC-Puducherry*
Certificate Course in Python, *CSEC-Puducherry*
Diploma in Full Stack JAVA Development, *CSEC-Puducherry*

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*
IndustriAI Hackathon, *SHAASTRA 2025- IIT Madras*

Competencies

- Problem Solving
- Team Player
- Quick Learner
- Critical Thinking
- Open to Challenge