

Jayaa Sri K

B.Tech in Information Technology

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Portfolio: jayaasri-portfolio.vercel.app | **Github:** <https://github.com/jayaasri>

Professional Summary

Enthusiastic and self-motivated B.Tech IT graduate with hands-on experience in Machine Learning, Flutter app development, and Deep Learning projects. Skilled in Java and Web technologies. Eager to contribute to software development while continuing to learn and grow in a dynamic tech environment.

Skills

Languages: Java

Technologies: Flutter, Flask, MySQL

Web: HTML, CSS, JavaScript

AI/ML: Machine Learning, Deep Learning, XAI

Education

Thiagarajar College Of Engineering, Madurai

Oct 2021 - May 2025

B.Tech in Information Technology

CGPA: 8.27/10

Srivi Lions Matriculation Higher Sec School

June 2013 - Apr 2021

HSE (XII): 93.04%

SSLC (X): 92.6%

Internship

Tech Mango, Madurai

Dec 2022 - Jan 2023

Flutter Developer

- Gained hands-on experience in mobile application development using Flutter.
- Built an Expense Tracker app with CRUD features and shared preferences for efficient financial tracking.

Thiagarajar College Of Engineering, Madurai

Jan 2022 - Feb 2022

InLab Intern

- Built a machine learning model to detect and estimate food calorie content from images, helping users track dietary intake.
- Gained hands-on experience in data preprocessing, model training and evaluation.

Project Work

- **Assistance Technology for Blind, Deaf and Dumb**

Technologies Used: HTML, CSS, JavaScript, Python (Flask)

Developed a machine learning project focused on creating assistive technologies to improve accessibility and communication for individuals who are blind, deaf, and nonverbal.

- **Food Calorie Detection**

Technologies Used: HTML, CSS, JavaScript, Python (Flask)

Developed a system for detecting and analyzing food calorie content, aiding users in making informed dietary choices.

- **Agriculture Management System**

Technologies Used: HTML5, CSS3, PHP, MySQL

Developed an agriculture management system employing HTML5, CSS3, PHP, and MySQL, with a primary aim to eradicate middlemen in agriculture.

- **Toxicity Analyser on Cosmetics**

Technologies Used: Machine Learning

Used machine learning techniques to create a toxicity analyzer for cosmetics, enabling the assessment and prediction of potentially harmful ingredients in cosmetic products.

- **Diagnosis of Eye Diseases Using Deep Learning and Explainable AI (XAI)**

Technologies Used: Deep Learning, XAI (SHAP, Grad-CAM, LIME)

Developed a deep learning model for the early detection of common eye diseases (Diabetic Retinopathy, Cataract, and Glaucoma). Integrated explainable AI techniques to provide transparent, interpretable insights into model predictions, enhancing trust and aiding clinical decision-making.

Research Paper Presentation

- **Decoding Cosmetic Ingredients: A Comprehensive Approach to Toxicity Analysis and Safety Recommendations Using Advanced Machine Learning Models**

Presented at ICRTET 2024, Nanda Engineering College, Erode.

- **Decoding Predictive Maintenance System for Tyre Manufacturing Company**

Presented at ICRTACES 2024, K.Ramakrishnan College of Engineering, Trichy.

Certificates

- Problem Solving using C – NPTEL
- SQL Fundamentals – SoloLearn
- Applied Data Science with Python – MOOC

Achievements and Participation

- Participated in IITM Build Club workshop.
- Won First Prize in Web Design Contest.
- Attended an intensive workshop on Augmented Reality & Virtual Reality.
- Served as Project Manager for all major academic projects.

Extra-Curricular Activities

- Participated in intra-college drawing and poster competitions.
- Volunteered at college tech symposiums and department-level events.
- Passionate about drawing, art journaling, and creative design beyond academics.

Personal Details

- Date of Birth: 22/08/2003
- Gender: Female
- Status: Unmarried
- Nationality: Indian
- Known Languages: English(Fluent), Tamil(Native), Hindi(Basic)