

SIVABALAN TAMILARASAN

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SUMMARY

AI & ML Developer with practical experience in backend systems through real-time projects in an industrial setting. Familiar with implementing AI models and backend solutions. Enthusiastic learner with participation in hackathons, eager to grow skills and contribute effectively in professional environments.

EDUCATION

Bachelor of Technology	Graduation - 2026
Major in Artificial Intelligence and Machine Learning	
• CGPA - 8.23 (Up to 6th Semester)	
Pari Vallal Matriculation School	2020 - 2022
• HSC - 94.50% SSLC - 76.66%	

TECHNICAL SKILLS

Machine Learning	Deep Learning	Generative AI	Python
Data Analysis	Flask & REST APIs	SQL & NoSQL	Git & Version Control

EXPERIENCES

Brakes India Internship - (AI and Backend)	Mar 2025 - May 2025
• Developed end to end YOLO11-based Driver Drowsiness Detection with CAN speed tracking at Brakes India ER&D.	
IEEE CIS SOCIETY - Technical Associate (Web Dev)	Nov 2024 - Jun 2025
• Built IEEE Computational Society website with React, GitHub, and Vercel, enabling real-time updates, custom domain, and improved member engagement.	
Apollo Tyres Consultancy Project - (AI and App Dev)	Feb 2024 - Apr 2024
• Developed OpenCV-PLC Tire Jam Prevention System with Tkinter GUI & Flask-SQLite backend, cutting downtime at Apollo Tyres.	
Matrix Food Order - (Founder & Developer)	May 2023 - Current
• Created the Matrix Food Order Website, a streamlined food ordering system tailored for college hostel, enhancing menu selection processing efficiency and easy ordering process.	

PROJECTS

Smart Retailer Application	Mar 2025
• Built AI retail app with Flask, PostgreSQL, LSTM & LLM chatbot to boost inventory and sales.	
Recipe Data API	Jan 2025
• Developed RESTful API with Python, Flask & SQLAlchemy to serve recipe data with pagination, sorting, and advanced filtering.	
Printed Circuit Board defect Detection	Aug 2024
• Built YOLOv8 & MobileNet system to detect and sort defective single/multi-layer PCBs.	

ACHIEVEMENTS

- **CryptoShield Hackathon** - Led winning team developing AI-based oil spill detection system.
- **Smart India Hackathon** – Ranked Top 25 of 800 ideas, advancing to national stage.
- **IEEE Breadths Ideathon** – Achieved 2nd place for innovative solution design in team event.
- **Enthirathon** – Secured 2nd place among 500+ entries with Animal detection system.