JAYAMURUGAN V

Software Developer

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EXPERIENCE

SAINT-GOBAIN PRIVATE LIMITED, CHENNAI

Dec 2021 - Aug 2023

- Project: loss of defect Leadfree soldering (LFS) Objective: to control the defects rate ,we need to keep that lfs glass upto 7-10 days,it will shows.
- Reduce of defects rate at customer end Achievements.product by 95% and improved response accuracy by 80%, enhancing customer satisfaction and operational efficiency.

DIYA ROBOTICS PRIVATE LIMITED,CHENNAI

Sep 2023

- Project: Otto bot Description: Developed and programmed Otto bot, a DIY robot.
- Focused on motion,obstacle detection, and interactive features using Arduino. Enhanced functionality through iterative testing .Technologies: PRG AI BLOCK Sensors: diya nano board,servo motors,ultrasonic,touch sensor,dot matrix.

eNtrust software and services Pvt. Ltd, CHENNAI

Aug 2024 - Sep 2024

- Gained valuable technical insights into how IT companies operate,the strategies they use to drive growth, and the inner workings of the IT department.
- I also had the opportunity to enhance my skills in C# and .NET

Vulture lines Pvt. Ltd, CHENNAI

FEB 10 2025 - MAR 14 2025

- I completed a one-month internship at VultureLines as a DataAnalyst, where I worked on customer segmentation based on purchase behavior.
- During this internship, I gained extensive knowledge in data analysis and enhanced my skills in Power BI and Python while applying analytical techniques to derive meaningful insights.

TECHNICAL SKILLS

- Python
- Figma
- Power BI
- React js
- Framer

ACHIEVEMENTS

1st Prize – Codeathon 3.0 Won₹10,000 for developing an innovative solution during a national-level hackathon.

Research Publication – ICEET ConferenceJournal authored and published a paper titled [TASTYLENS] in the proceedings of the International Conference on Emerging Engineering Trends(ICEET), [2025].

Research Publication – ICIRES Conference Journal authored and published a paper titled [Heal Fit] in the proceedings of the International Conference on Innovative Research in Engineering Sciences (ICIRES), [2025].

WORKSHOP

GAIN - Sustainable Manufacturing technologies: Addictive, Coating, Subtractive and Hybrid.

OneYes Infotech Solutions Pvt. Ltd , CHENNAI

21st May 2025 – 20th June 2025

- Completed a 1-month AI & ML Developer internship at OneYes Infotech Solutions Pvt. Ltd., gaining hands-on experience in data preprocessing, model training, and predictive analytics.
- Worked on real-time machine learning projects and collaborated with team members to develop and deploy AI-driven solutions.

EDUCATION

DMI College Of Engineering, Chennai— B.Tech(AI&DS)

2023-2026

- Currently in the third year of a Bachelor of Technology in Artificial Intelligence and Data Science at DMI College of Engineering, with a 3-year duration.

Dusi polytechnic college, Cheyar— DME

2019-2021

Dedicated and detail-oriented Quality Specialist with a Diploma in Mechanical Engineering and 2 years of professional experience across multiple companies.

PROJECTS

Face Recognition Process - Using PRG AI block

Developed a face recognition process using AI tools such as Teachable Machine and PRG AI Block. The system can identify images and accurately recognize individuals by name.

Robotic Process Automation (chatbot), Dialog flow

Implemented Robotic Process Automation (RPA) to streamline and automate repetitive tasks, enhancing efficiency and accuracy in business processes.Skilled in designing, developing, and deploying RPA solutions to optimize workflows and reduce operational costs

Object Movement Detection, python programming

Developed an object movement detection system using Python programming. The system detects changes in the initial frame and triggers an alarm sound upon detecting any movement.

COURSE

Machine learning (diya robotics private limited, chennai).

Artificial intelligence(novitec private limited.

Python (let's update).

AI TOOLS

BOLT.aI

FireBase

Curser.ai

ChatGpt

Perplexity.ai

LANGUAGES

TAMIL

TELUGU

ENGLISH

Quadra Bot (Robotic Dog)

Engineered a mini robotic dog equipped with sensors and actuators to mimic real dog behaviors. Programmed the robot to perform various tasks, including walking, sitting, and responding to voice commands, showcasing skills in robotics, programming, and mechatronics.

Cardboard VR headset

Designed and developed a cost-effective cardboard VR headset,integrating smartphone compatibility, ergonomic comfort and optimal visual clarity I used plastic bottle for make convex lens.Conducted testing and refinement to enhance functionality and user experience Material use: cardboard, transparent plastic bottle.

Aurobot - a personalized health and wellness assistant

Developed a personalized health and wellness assistant capable of providing user-specific guidance on nutrition, fitness, and mental well-being using AI.Integrated natural language interaction to offer real-time support across various wellness domains.

Carbon Footprint Calculator

Developed a web-based tool that estimates users' carbon emissions based on lifestyle choices (transport, energy, food, etc.). Provided personalized tips to reduce environmental impact using data-driven insights and sustainable practices.

Zara - an intelligent voice-based personal assistant

ZARA is a smart, conversational assistant designed to help users perform tasks using natural language voice commands. Inspired by JARVIS from Iron Man, ZARA understands your voice, responds accordingly, and can carry out various system and internet-based actions.

Heal-Fit — (React, TypeScript, Node.js, Supabase)

Built an AI-powered health assistant with features like mood tracking, mental wellness challenges, and scan-based diagnosis.Used Gemini 1.5 Pro for medical insights, Supabase for user data, and React with TypeScript for a responsive frontend.

Brain Tumor Detection (Deep Learning + Streamlit)

Built a web app to detect brain tumors from MRI scans using VGG16 and Streamlit. Enabled real-time predictions, alerts for malignant cases, and visual reports (ROC, confusion matrix, clustering).

Tech: Python, TensorFlow, VGG16, Streamlit, OpenCV, Scikit-learn.

Semi Automatic Incubator

Designed and developed a semi-automatic incubator that optimizes the incubation process by maintaining precise temperature and humidity levels.Integrated manual and automated controls to ensure reliable and efficient hatching conditions, improving hatch rates and operational convenience.

Instrument Used:Thermostatic board,12v 2 amps adaptor,thermocol,12v dc fan,tungsten bulb.