PARTHASARATHY GANESHPRABU

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LinkedIn — GitHub — Portfolio

Objective

Motivated to apply my knowledge and skills in real-world AI and full-stack development environments. Eager to gain deeper practical experience through continuous learning and contribute effectively to organizational goals.

Education

M. Kumarasamy College of Engineering, Karur *Oct 2022 – Present*
Bachelor of Technology in Artificial Intelligence and Machine Learning GPA: 6.7/10.0
Chandy Polytechnic College *July 2020 – Mar 2023*
Diploma – Marine Engineering Percentage: 81%

Area of Interest

- Machine Learning
- Backend Development(Fast api)
- Artificial Intelligence (agentic ai , A2A , Langchain, Langraph)

Skills

Languages: C++, Java, Python, PHP, React
Soft Skills: Problem Solving, Team Management, Decision Making

Experience

AI Trainee – CodeWork (Internship) *May 2025 – June 2025*
Worked on AI-driven automation and backend integration projects, gaining experience in collaborative AI workflows, model testing, and real-time application development.

AI Trainee – (4 Months Experience) *Aug 2025 – Dec 2025*
Involved in advanced AI projects including model fine-tuning, multi-agent RAG-based systems, and documentation using LaTeX on Overleaf. Focused on innovation, architecture design, and intelligent automation solutions.

Projects

AI Tutor (2025)
Role: AI Trainee
Developed an AI-based interactive tutor using RAG + LLM architecture for personalized learning assistance. Integrated text understanding, knowledge retrieval, and conversation memory to deliver adaptive teaching experiences.

AI Virtual Intern Platform (2025)
Role: AI Trainee
Built a virtual internship management system powered by LLMs to automate intern evaluation, task recommendation, and mentor-intern communication. Integrated intelligent workflow management and analytics dashboard.

AI Visual Agent (2025)
Role: AI Trainee
Designed an AI agent capable of visual understanding through image and video analysis using multimodal models. Implemented object detection, caption generation, and OCR-based text extraction for interactive visual reasoning.

AI Virtual Board (2025)
Role: AI Trainee
Created an interactive whiteboard application enhanced with AI for real-time handwriting recognition, diagram interpretation, and idea mapping. Integrated collaborative tools using NLP and vision-based assistance.

Fire Detection System (2025)
Role: AI Trainee
Developed a CNN-based real-time fire detection system using video feed analysis. Enabled automatic alerting through IoT integration and OpenCV-based monitoring.

SmallLM Project (2025)
Role: AI Trainee
Researched and trained a lightweight transformer (SmallLM) optimized for 4GB GPUs. Implemented QLoRA fine-tuning and Unsloth framework to enhance efficiency in small-scale LLM experiments.

Green-Farm: AI-Powered Agricultural Marketplace (Ongoing) 2025
Role: Full Stack Developer & AI Engineer
Built a farmer-centric marketplace enabling direct produce sales. Integrated AI-based crop quality analysis and blockchain-secured UPI payments.

Early Diagnosis of Pneumonia Using ML (2024)
Role: Machine Learning Engineer
Used ML algorithms to predict pneumonia onset from medical imaging datasets, enhancing diagnostic accuracy and enabling early intervention.

Online Social Media Communication Analytics (2023)
Role: Data Analyst
Analyzed social media metrics to optimize engagement and improve digital brand presence.

Achievements

- Achieved 1st place in International Yoga Competition at SGS International Yoga Foundation, Bengaluru.

- Secured 2nd place in Technical Quiz at KGiSL Institute of Technology, Coimbatore.

- Participated in Hackathon at Oasys Institute of Technology, Trichy.

- Represented college in All India Inter-University Yoga Team (Kalinga Institute of Industrial Technology, Bhubaneswar).

Certifications

- Microsoft Certified: Azure Fundamentals (AZ-900)

- NPTEL – The Joy of Computing Using Python

- NPTEL – Introduction to Industry 4.0 and Industrial Internet of Things

- Oracle Certified – Generative AI