

GUTHI VIGNESH BABU

WEBDEVELOPER | AI&ML | EMBEDDED SYSTEM

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ABOUT ME

Aspiring Artificial Intelligence and Machine Learning (AI&ML) engineer with a strong foundation in web development. Passionate about building innovative solutions that integrate AI/ML for real-world applications. Looking for opportunities to apply my skills in machine learning, web development, and automation to solve challenging problems.

EDUCATION

B.Tech CSE (AI & ML) — Dhanekula Institute of Engineering & Technology, Vijayawada (CGPA: 7.51 ,4-1)

Intermediate (MPC) — Narayana Junior College (CGPA: 6.73, Year: 2022)

SSC — Oxford High School (CGPA: 9.80, Year: 2020)

PROJECTS

SIGN LANGUAGE DETECTION & TRANSLATION SYSTEM

Present

"Built an AI-powered system that detects and translates sign language gestures into real-time text/speech using MediaPipe for hand tracking and CNN-based deep learning models for accurate gesture classification."

DHAN FLY HIGH CLUB – Web Application Development

The official Drone Club of your college, and you developed a dedicated web application to showcase the club's activities, projects, achievements, and technical initiatives. The platform enhances visibility and helps students explore drone technology and innovations.

Driver Distraction Alert System – ADAS Module (APSRTC Collaboration)

2 Months

The Parking Automation Model is designed to detect free and occupied parking slots in real time using a live CCTV feed. It leverages a combination of YOLO, contour mapping, and a slot-tracking algorithm to continuously update the occupancy status, even in the presence of motion and occlusion. The technologies employed in this system include YOLO, OpenCV, NumPy, and Python.

TensorAI-LLaMA Model Fine-Tuning

1 Month

- TensorAI is a framework enabling a Large Language Model (LLM) to autonomously execute tasks on various web applications without hard-coded rules.
- It features a multi-agent architecture using LangGraph, MCP, and Playwright for interactions with browsers, APIs, and services like Gmail and LinkedIn.
- The LLaMA model is fine-tuned with specific data to enhance reasoning and tool selection capabilities.
- Deployment is done through Docker and Vercel, with trained weights available on Hugging Face for public use.
- Technologies used include LLaMA, LangGraph, MCP, Playwright, LoRA/PEFT, Docker, Vercel, Zapier, and Hugging Face.

INTERSHIPS

Google Cloud Cybersecurity Certificate: Completed foundational training in cloud security, threat detection, network defense, and incident response on Google Cloud.

(1MONTH)

Edubot Software & Services — LLM Development Internship (API-Based)

(8 WEEKS)

Edubot's LLM internship focuses on teaching how modern AI systems are built using Large Language Models (LLMs) and how they are integrated into real applications through APIs. The program covers practical implementation, model customization, prompt engineering, and deploying AI-powered tools.

Aimer Society –AI&ML Intern:

(8 WEEKS)

- Worked on real-world AI/ML and Generative AI projects, applying advanced model-building techniques to solve practical problems.
- Developed end-to-end solutions including data preprocessing, training, optimization, and integrating GenAI APIs for intelligent automation.
- Gained hands-on experience with Python, deep learning frameworks, and deployment workflows while collaborating in an industry-style environment.

BlackBuck's AI internship: focuses on applying GenAI models like ChatGPT to solve real-world automation, content generation, and workflow optimization challenges. The program emphasizes practical implementation of conversational AI, API integration, and building intelligent systems that enhance business efficiency.

(8 WEEKS)

ACHIEVEMENTS & HACKATHONS

1ST PRIZE – NATIONAL LEVEL HACKATHON (CODESPARK INDIA 2025)

NeuroNodes is an advanced AI workflow engine designed to automate complex tasks using natural language prompts. It integrates multiple AI models—Gemini, GPT, Groq, and others—into a unified node-based system where each node handles processing, analysis, generation, or execution. The project was recognized with the Best Innovation Award, along with a new laptop prize."

PARTICIPATION IN ANDHRA PRADESH DRONE SUMMIT(2024)

I participated in the Andhra Pradesh Drone Summit, where I gained valuable exposure to the latest advancements in UAV technology, autonomous systems, and industry-driven innovations. The summit provided insights into real-world drone applications across agriculture, defense, disaster management, and logistics. I also interacted with experts, exhibitors, and innovators, which helped me understand emerging trends, safety regulations, and future opportunities within the drone ecosystem.

SKILLS

Programming: Python, basic of C, Java and SQL ,

Frontend: HTML, CSS, JavaScript, Bootstrap, Flask, basic of React

Backend: Python,Django

Databases: MySQL, PostgreSQL, No sql MongoDB

Tools: GitHub, VS Code, Jupyter Notebook, Google Colab, PyCharm

AI/ML: Fine tuning, model training, OpenCV, Generative AI

Hardware/IoT: Raspberry Pi, NVIDIA Jetson Nano, Drone Integration

CERTIFICATIONS

- SPOKEN TUTORIAL OF IIT BOMBAY C
- SPOKEN TUTORIAL OF IIT BOMBAY CPP
- TRAININGAI MODEL DEVELOPMENT CONTEST BY ARTIFICIAL INTELLIGENCE MEDICAL & ENGINEERING RESEARCHERS SOCIETY
- INFOSYS SPRING BOARD PYTHON BASICS
- INFOSYS SPRING BOARD JAVA DEVELOPER CERTIFICATION
- GENRATIVE AI BY IIDT BLACKBUCKS

View certificates : https://drive.google.com/drive/folders/1-LINR8t4X8hDiudbyXFRfvI5NVMPZSFW?usp=drive_link

ADDITIONAL INFORMATION

More information about my work and achievements is available on my portfolio: gvignesh.in

Me on LinkedIn: [VIGNESH BABU GUTHI](#)