

Aravindhan B

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OBJECTIVE

Passionate IT professional with experience in full-stack development, building scalable applications. Skilled in NLP, machine learning, and LLM technologies. Seeking to leverage technical expertise and problem solving skills to contribute to organizational growth while continuously expanding knowledge in cutting-edge technologies.

EDUCATION

Anna University – Chennai ,Tamil Nadu

2020-2024

Chettinad College Of Engineering And Technology

BE- Computer Science Engineering | CGPA – 8

PROFESSIONAL EXPERIENCES

Software Developer | Perspectiv Labs

July 2024 - present

- Worked on the development of both browser based and mobile applications, contributing to frontend and backend components. Improved application performance by optimizing API integrations and streamlining user experience.
- Leveraged low code and no-code tools to prototype features, accelerating the development cycle. Collaborated with cross functional teams to ensure timely delivery of milestones. Resolved application issues to improve user experience.

Full Stack Developer | Softapper Technologies

Feb 2024 – May 2024

- Developed and maintained web pages, contributing to multiple projects from concept to deployment. Gained hands-on experience in both frontend and backend development, improving coding efficiency and problem solving skills.
- Collaborated with team to implement features, and optimize performance. Enhanced understanding of web development workflows, version control, and project management processes.

PROJECTS

Hallucination-Resistant LLM | Python, Gradio , FAISS, LoRA/PEFT

- Traditional LLMs (e.g., GPT-3.5, LLaMA-2) often hallucinate; they may invent fake research papers, provide incorrect medical facts, or make up citations. This unreliability poses a risk in high-stakes situations.
- Hallucination-resistant LLM is self-verification, and LoRA fine-tuning. It delivers factually consistent, domain-grounded responses. This approach reduces LLM hallucinations by combining external knowledge retrieval, answer cross-checking, and dataset fine-tuning. It ensures accuracy, reliability, and scalability in real-world AI applications.

AI Interview Copilot | React js, Node.js, OpenAI, Web Speech API, PostgreSQL

- Developed a real-time interview assistant that listens to questions and provides AI-powered responses with voice synthesis. Implemented an interactive practice system where users can receive immediate feedback on their answers using natural language understanding.
- Integrated Web Speech API for audio input and voice output, combined with OpenAI API to generate intelligent, context-aware responses.

Blu - Local Multilingual Multimodal Assistant | Python, Ollama, RAG

- Developed a local 7B multilingual assistant supporting text, voice, PDFs, and images using quantized models via Ollama and Implemented RAG pipeline to ingest PDFs/TXT, generate embeddings, and answer user queries from a local index.
- Integrated Whisper ASR for audio input and pyttsx3/Coqui TTS for speech output, with optional llava vision for image understanding.

SKILLS

Programming	JavaScript, Python, React Native, Node.js
Libraries and Frameworks	Flask, FastAPI, NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch, OpenCV, SciPy, HuggingFace Transformers
AI and ML Expertise	Data Preprocessing, Deep Learning, Large Language Models, Speech Recognition, Medical Image Computing, Data Analysis
Tools	Git, Cursor, Streamlit, Gradio, PostgreSQL, Docker, AWS

CERTIFICATIONS

- **Introduction To Model Context Protocol** – Anthropic
- **Big Data Analytics** – Completed via Infosys Springboard
- **Python for Data Science and AI Development** – Certified by IBM