

Aravindhan B

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OBJECTIVE

Passionate IT professional with 1.5 years of experience in full-stack development, specializing in React.js, Node.js, and Python. Experienced 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

Chettinad College Of Engineering And Technology

2020 – 2024

BE- Computer Science Engineering | CGPA – 8.3

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 REST API integrations, enhancing responsiveness, and streamlining user experience.
- Leveraged low-code and no-code tools to prototype features, accelerating the development cycle. Collaborated with crossfunctional teams to ensure timely delivery of milestones. Resolved application issues to improve user experience.

AI Developer

Freelancing

- Analyzed ethical reasoning of LLM agents in multi-agent social dilemmas using Gemini and OpenAI APIs, revealing key differences in decision-making, communication, and value-action alignment across diverse ethical frameworks and assessing the effectiveness of norm-guided AI in complex environments.

PROJECTS

WaterMeter App | React Native , Typescript , Tailwind CSS, PostgreSQL , AWS

- Developed a cross-platform mobile app using React Native & EXPO to enable users to monitor real-time water consumption.
- Designed an intuitive user interface for tracking usage patterns, viewing detailed analytics, and receiving leak detection alerts. Built a secure and scalable backend with Node.js and PostgreSQL, enabling real-time data synchronization, trend analysis, and push notifications across devices

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

- 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.
- 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 languages: Python, JavaScript, TypeScript

Frameworks & Development: React Native, Node JS, REST APIs, Jest

AI / ML: Scikit-learn, TensorFlow, PyTorch, Flask/FastAPI,pandas, NumPy, Data Preprocessing,

Large Language Models (Open AI , HuggingFace Transformers), Prompt Engineering, Speech Recognition

Tools: Git, Gradio, Streamlit, AWS, Docker

CERTIFICATIONS

- **Advanced Prompt Engineering with ChatGPT** - Upgrad
- **Big Data Analytics** – Completed via Infosys Springboard
- **Python for Data Science and AI Development** – Certified by IBM