# Aravindhan B

Bengaluru, India
aravindh1653@gmail.com | 6379580068 | Portfolio | LinkedIn

## 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 , TailwindCSS, 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

**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.
- Optimized for **CPU-friendly setups**, with optional GPU acceleration for fine-tuning or large-scale tasks.

**Voice Enabled Chat with PDFs** | Python , LangChain , Open AI , RAG
- Developed LangChain-based chatbot answering user queries through audio input using Whisper (OpenAI).
- Implemented RAG pipeline, chunked PDFs, generated embeddings & stored them in FAISS database
- Employed LLaMA Scout LLM & Gemini TTS for audio output; deployed using Hugging Face Spaces.

## SKILLS

**Programming languages**: Python, JavaScript, TypeScript
**Frameworks & Development**: React Native, Node JS, REST APIs, Jest
**AI / ML**: Scikit-learn, TensorFlow, PyTorch, Neural Networks, pandas, NumPy, Data Preprocessing, Large Language Models , Prompt Engineering, Speech Recognition
**Tools**: Git, Gradio, Streamlit, Flask/FastAPI,  AWS, Docker , 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