

Aravindhan B

Bengaluru, India

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EDUCATION

Chettinad College Of Engineering And Technology
BE- Computer Science Engineering | CGPA – 8.3

2020 – 2024

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.

Full Stack Developer

Intern

- Throughout my Internship at Softapper, I dedicated my efforts to developing websites and Actively contributing to projects significantly enriched my experience, refining my proficiency in both frontend and backend skills.

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

Voice Enabled Chat with PDFs | Python , LangChain , Grok 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

Blupilot AI Interview Copilot | React js , Node js , TailwindCSS, Open AI

- Developed a Web-app using React Native and Node js to help users prepare for job interviews through interactive mock sessions and personalized feedback.
- Integrated OpenAI API to simulate realistic, role-specific interview conversations across various industries, enabling dynamic and adaptive practice environment.

SKILLS

Programming languages: Python, JavaScript, TypeScript

Frameworks: React Native, AngularJS, Node.js, Flutter, Tailwind CSS, REST APIs, Jest

AI & ML Libraries: Scikit-learn, TensorFlow, PyTorch, OpenCV, keras, pandas, NumPy

Tools & Frameworks: Git, AWS, Open AI, Gemini, Hugging Face Transformers, LangChain , Gradio , 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

RESEARCH EXPERIENCES

Utilize Ai Chatbots, Machine Learning To Address Depression, Attrition, Follow-up Challenges

Author's Name : Aravindhan B , Ansari J , Manikandan M - 2024

- Developed an AI-driven mental health support system using conversational chatbots for preliminary screening and emotional support. Applied machine learning models to predict user attrition and depressive symptom patterns using behavioral and engagement data.
- Integrated follow-up mechanisms using adaptive scheduling and reminder systems, improving user retention and engagement by 62%