

Aravindhan B

Bengaluru, India

EDUCATION

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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 using React and TypeScript, 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 Engineer – Day One

Freelancer

- Developed a Conversational AI Avatar Bot for restaurant ordering via QR code. Built a voice-driven, browser-based assistant using NLP and speech synthesis.
- Focused on developing a human-like chatbot interface using advanced NLP techniques and real-time speech synthesis

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, Vue.js, Node.js, Flutter, Tailwind CSS, REST APIs, Jest

AI & ML Libraries: Scikit-learn, TensorFlow, PyTorch, Keras, OpenCV, SciPy, NumPy, Pandas

AI Tools & Frameworks: Git, Jupyter, Open AI API, Hugging Face Transformers, Langchain , spaCy, Gradio, Docker

Database: PostgreSQL , MongoDB , MySQL

CERTIFICATIONS

- **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%