

MAHESH THATIPAMULA

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EDUCATION

Methodist College Of Engineering and Technology, India

June 2019 - May 2023

Bachelor's, Communication Engineering

PROFESSIONAL EXPERIENCE

DataFlare

Hyderabad

Front-End Engineering, Tech Stack: React.js, Redux

March 2024 - Present

- Built a scalable frontend from scratch, ensuring a modular and reusable component architecture using React.js.
- Developed a config-driven UI, allowing dynamic content generation based on backend configurations for flexibility and scalability.
- Implemented advanced caching strategies (memoization, lazy loading) to optimize performance and reduce redundant API calls.
- Engineered a clean, maintainable, and scalable codebase, following best practices for reusability and maintainability.
- Integrated APIs efficiently with optimized data fetching, reducing response time by 20% and improving system performance by 15%.

YBI Foundation

Remote

AI/Machine Learning Intern , Tech Stack: Python,

2022 – 2022

- Designed and trained machine learning models using Python, enhancing predictive accuracy for real-world datasets
- Collaborated with data scientists to implement AI solutions, improving algorithm efficiency and processing speed.
- Analyzed and visualized data trends, supporting strategic insights for business applications

SKILLS

- **Programming Languages:** Python, Java, JavaScript.
- **Databases:** SQL, MongoDB.
- **ML and AI:** TensorFlow, Scikit, PyTorch, Scikit-learn, OpenCV, VertexAI, OpenAI, Groq, Ollama, LangChain.
- **Tools and Technologies:** Git, AWS cloud, REST Api, React.js, Node.js, Next.js.

PROJECTS

JobMate AI - Tech Stack: Python, FastAPI, SQL Alchemy, SQL Lite, VertexAI, LangChain, AdzunaAPI, Gmail API, Google Sheets API

- Developed a job search platform that generates tailored cover letters, recommends relevant resume skills based on job descriptions, and automatically tracks applications from Gmail, logging job details in a centralized Google Sheet, improving efficiency by **50%**.

EmpathAI - Tech Stack: Python, LangChain, LangGraph, HF Transformers, TextBlob, VADER, FastAPI, Docker, Streamlit, React, Django

- Designed an AI mental health assistant that analyzes user sentiment, generates emotion-aware responses, and provides personalized coping strategies using LLMs and sentiment analysis.

Brain tumor diagnosis using K-means and morphological operations [Link](#)

- Developed a brain tumor detection framework from MRIs utilizing clustering, thresholding, and morphological operations.
- Presented at **ICDAM-22**, the research was ranked among the **top 20%** of papers and published in **Springer Lecture Notes**.