Ajsal pv
Machine Learning Engineer

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LinkedIn | GitHub | LeetCode

Passionate and innovative Machine Learning Engineer with a relentless drive to push the boundaries of Artificial Intelligence. Seeking an opportunity to bring cutting-edge solutions to life through advanced Machine Learning Techniques. Eager to contribute my expertise in model development, optimization and NLP, while continuously expanding my horizons in the dynamic world of AI.

Professional Experience

4Champz, Bangalore | December 2024 – December 2025

AI Developer (Full-time)

- Developed end-to-end AI solutions, Integrating Large Language Models(LLMs) into production systems for automation, decision-making, and intelligent workflows.
- Build backend services using **Node.js** and **Python,** implementing APIs, data pipelines, and AI inference layers with secure and scalable architecture.
- Designed and deployed **LLM-powered automation workflows using n8n,** enabling multi-step actions such as routing, notifications, scheduling, and data processing.
- Implemented **prompt engineering,** structured prompt templates, and evaluation loops to improve accuracy, reliability and response quality of LLMs.
- Integrated conversational and voice-based AI using Vocode (real-time voice agent framework) and accelerated inference using **Groq**.
- Created AI modules for summarization, sentiment detection, scoring, personalized recommendations, and automated plan/insight generation.
- Worked with **STT/TTS** pipelines(Deepgram, Google STT/TTS) to enable voice input , transcription and natural-sounding AI responses

Projects

Mamdev Yoga App | Yoga and Healthcare App | Live Project

Live on: Google Play & App Store - Mamdev Yoga App

- Build AI-driven personalization features for a commercial wellness application, using LLMs to generate customized yoga routines, performance summaries, feedback analysis and AI-recommended diet plans tailored to user health inputs.

AI-driven Medical Literature Summarization and Information Extraction

Live on: AI-driven Medical Literature Summarization and Information Extractions

GitHub : GitHub

- Developed an AI-driven tool utilizing Large Language Models(LLMs) to summarize medical literature and extract key insights. Implemented in python, it simplifies access to complex medical texts for professionals.

- Utilized python for data preprocessing and analysis, integrating advanced techniques including Large Language Models(LLMs), FAISS vector store, Hugging Face and LangChain for efficient similarity search and embedding

MEDICAL DIAGNOSE

Live on : Medical Diagnose

GitHub : GitHub

- Developed an AI-driven symptom analysis tool leveraging LLM to assess potential health concerns based on reported symptoms.
- The system provides detailed insights into symptoms with recommendations for prompt medical attention if necessary.
- Implemented in Python, the tool streamlines access to critical medical information, empowering users to make informed decisions and seek appropriate treatment options under the guidance of healthcare professionals.

Skills

Technical Skills:
• Python • DSA • Numpy • Tensorflow • Keras • Scikit-Learn • Psql • Transformer Architecture

Libraries/ Frameworks :
• Hugging Face • Langchain • FastApi • Vocode

Dev Tools :
• Jupyter Notebook • Google Colab • Pycharm • Visual Studio Code

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Education

Machine Learning Engineer
Brototype | 2023 - 2024

B.E. Computer Science
Anna University, Chennai | 2018 – 2022

Languages Known

English, Malayalam, Tamil