Vivek Nair

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Objective

Aspiring AI Engineer with a passion for AI/ML and Generative AI, eager to develop innovative solutions, collaborate on impactful projects, and advance in artificial intelligence.

Education

Computer Science And Engineering (Data Science), 2022 – present
Dwarkadas J Sanghvi College of Engineering CGPA - 8.5

HSC 2020 – 2022
Holy Family Junior College Percentage-86.83

SSC 2008 – 2020
Holy Family Convent High School Percentage-91.2

Internship

AI Intern at Coding Jr 06/2024 – 08/2024

- Developed a multimodal RAG (Retrieval-Augmented Generation) system that enables users to interact with invoices and payment data through natural language conversations.
- Built a Voice Emotion Detection AI that automatically isolates the user's voice from chatbot conversations and performs real-time emotion analysis.
- Fine-tuned the LLaMA 2 model on a client's extensive codebase to enhance its integration into a code generation Copilot, improving its effectiveness in assisting with code completion and suggestions.

AI intern at ULTRACEUTICALS 11/2024 – present
Finding Drug target pairs and off target effects with help of LLM's.
Built an AI Agent that automatically generated pandas code to get the answer from the CSV based on query.

Projects

PhishGuard
Developed a phishing detection system using machine learning to analyze network data for suspicious patterns. Utilized MongoDB for efficient data ingestion and storage, with experiments managed on DagsHub and MLflow. Automated workflows using GitHub Actions and containerized the application with Docker for seamless deployment. This project strengthened my skills in network security, machine learning, and DevOps practices.

QuerySense
QuerySense is a multimodal AI agent powered by LLAMA Index, offering image generation, real-time analysis, and context-aware responses. It integrates RAG for precise retrieval, performs web searches, and summarizes YouTube lectures efficiently, enabling dynamic and interactive AI interactions.

RESOLVR
An AI-powered solution designed to enhance workflow efficiency and productivity in Indian BPOs. It performs client complaint sentiment analysis using Groq, assigns priority to complaints, automates data entry, retrieves solutions from a knowledge base via LlamaIndex, and utilizes LiveKit with OpenAI's real-time API for an outbound calling agent, integrated with Twilio for user communication. The system features a Streamlit-based UI, PostgreSQL for database management, and RAG (Retrieval-Augmented Generation) for accurate and contextual responses, streamlining operations and reducing resolution times.

FACE-ID AI with Siamese Neural Network:
Developed a Face ID system using Siamese Neural Networks and Flask. The Siamese Network efficiently learns to compare and recognize face images with minimal training data, while the Flask app provides a user-friendly interface for uploading images and displaying recognition results. This project combines deep learning with web technology to offer a practical facial identification solution.

Skills

Programing Language — Python , Java

AI/ML — Machine Learning , Deep Learning , Computer Vision , NLP ,Generative AI

Frameworks — TensorFlow , Pytorch , ReactJS , Flask , FastAPI

Database — MongoDB , ChromaDB , Neo4J , PostgresSQL

Data Visualization — Matplotlib,Seaborn,Tableau

Mlops: — MLflow,DVC,Docker,Apache AirFlow,Github Actions

Awards

1st Prize, *NSDC, Dwarkadas J Sanghvi College Of Engineering* 28/09/2024
ML Kaggle Competition by DJS NSDC & ULTRACEUTICALS

1st Prize, *NSDC, Dwarkadas J Sanghvi College Of Engineering* 26/10/2024
Technograd 2.0 (Machine Learning and Data Science Coding Competition)

1 st Prize, *Datazen, Kj Somaiya College Of Engineering* 02/02/2025
Datazen Datathon 2025 Core Ml Domain

Organizations

IEEE 04/2024 – present
Events Co-Committee