VARSHA D

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Education

Mangalore Institute of Technology and Engineering   2023 - Present

Computer Science and Engineering   **CGPA:** 8.69

Vidyaniketan PU College   2021 - 2023

PCMC (CS)   **Percentage:** 91

Projects

Cold Email Generator

• Automates the process of writing cold emails for job applications by extracting key information from job postings and generating personalized emails.
• Integrates a portfolio of past projects to include relevant work samples in the generated emails, enhancing the application's effectiveness.
Technologies: Streamlit, LangChain, Langchain-Google-GenAI, Pandas, ChromaDB, Python-dotenv, Python
GitHub: Cold Email Generator

AI-Powered Resume Maker

• A sophisticated, AI-driven web application built with Streamlit and LangChain that empowers users to create professional, polished resumes with ease.
• Leverages the power of Large Language Models (LLMs) through the Google Gemini API to automate and enhance various aspects of the resume-building process.
Technologies: Streamlit, LangChain, Google Gemini API (gemini-1.5-flash), ReportLab, pypdf, BeautifulSoup4, Python
GitHub: AI-Powered Resume Maker

Intelligent Customer Service Chatbot

• Develop a customer service chatbot using LangChain and RAG to provide accurate and efficient responses to customer queries.
• Integrate the chatbot with a web interface built using React and a backend API using FastAPI or Express.js, leveraging a SQL or MongoDB database for persistent storage.
Technologies: React, FastAPI/Express.js, LangChain, RAG, SQL/MongoDB, Python, Node.js

Civix-SmartDustbin-AI

• An AI-powered smart dustbin that promotes responsible waste disposal by using real-time image analysis to detect recyclable objects, estimate their value, and reward users.
• It leverages a Vision Transformer (ViT) model and the Gemini Pro Vision API to analyze objects, providing users with coins or points for their sustainable actions and offering an admin dashboard for analytics.
Technologies: HTML, CSS, JavaScript, Python (FastAPI), Gemini Pro Vision API, SQLite / Firebase, Python qrcode module, OpenCV
GitHub: Civix-SmartDustbin-AI

AI-Powered Document Summarization and Question Answering System

• Develop a web application that allows users to upload documents (PDF, DOCX, TXT) and receive concise summaries and answers to their questions using LangChain, RAG, and a chosen large language model (e.g., Gemini API).
• Implement a user-friendly interface using React and deploy the backend using FastAPI. Utilize ChromaDB for efficient vector database storage and retrieval.
Technologies: Python, FastAPI, React, LangChain, RAG, ChromaDB, Google Gemini API, pypdf, BeautifulSoup4, MySQL

Skills

Languages: Python, Java, C++
Frameworks/Tools: FastAPI, Streamlit, Git, GitHub

AI/ML: LangChain, Retrieval Augmented Generation (RAG), Crew AI, Scikit-Learn, TensorFlow

Databases: MySQL

CS Fundamentals: Operating Systems, Object-Oriented Programming, Data Structures and Algorithms, DBMS, Machine Learning

Libraries/APIs: Pandas, ChromaDB, Python-dotenv, Langchain-Google-GenAI, Google Gemini API (gemini-1.5-flash), ReportLab, pypdf, BeautifulSoup4

Web Technologies: React, Express.js, Node.js

Achievements

- Shortlisted for Smart India Hackathon (SIH) at college level for innovative problem-solving.
- Actively participated in workshops, hackathons, and ideathons, strengthening teamwork and technical skills.
- Won First Prize in CSE Department Dance Competition, showcasing team spirit and creativity.