Lokeshwar V

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Chennai, India

Summary

Dynamic software developer with experience at Accenture, specializing in Python programming and RESTful API development. Proven track record in automating data processes and integrating third-party APIs. Strong collaborator with a passion for continuous learning and innovation, adept at leveraging Azure services to enhance application performance.

Social Media Links

LinkedIn: https://www.linkedin.com/in/lokeshwar-v-017a1b142/

Github :https://github.com/Lokeshwar-V

Experience

Packaged Application Development Associate

Accenture • Chennai , India   04/2024 - Present

- Developed and maintained scalable APIs using **Python Flask** to support automated data ingestion workflows.
- Engineered automation pipelines to transform and manage large-scale **Parquet datasets** using **Pandas**, converting them into **Pickle files** for downstream processing.
- Integrated **BERT embeddings** as part of the data preprocessing pipeline to enable semantic data representation before database ingestion.
- Automated the ingestion of processed files into **Milvus vector database**, optimizing performance for retrieval-based applications.
- Deployed code using **Azure DevOps pipelines,** including both development and release stages, ensuring continuous integration and delivery (CI/CD) best practices.
- Implemented automation of user story lifecycle management in **Azure** , including creation, execution tracking, and closure upon task completion.
- Leveraged **Azure Logic Apps** to invoke Flask APIs and **monitor data processing workflows**, enabling event-driven automation and reducing manual intervention.
- Collaborated with cross-functional teams to align automation workflows with business needs and improve operational efficiency.
- Maintained detailed documentation of workflows, pipeline configurations, and transformation logic to support maintainability and knowledge sharing across teams.
- Regularly engaged in code reviews and testing cycles to ensure robustness, security, and scalability of automated processes.
- Actively contributed to innovation and continuous improvement efforts within the data automation team.

Software Developer Intern

Nyl Technology • Chennai, TN   12/2023 - 03/2024

- Executed daily responsibilities with precision and efficiency.
- Generated innovative solutions to improve team performance and results.
- Developed proof of concept in Langchain and Pinecone for retrieval-augmented generation model.
- Created proof of concept for AI-powered maps tailored for cyclists.
- Designed proof of concept for stock retrieval in Instamart and Zepto.

Skills

Python programming, Flask framework, RESTful API development, Data analysis with Pandas, Milvus, Azure Logic Apps integration, Azure pipeline deployment, Documentation review, Data automation solutions

Education

B.Tech Information Technology

Vel Tech Multi Tech Dr Rangarajan Dr Shakunthala College • Chennai, Tamil Nadu   04/2022
- Graduated with 81.5%

Projects

Automated Data Pipeline for High-Volume Processing and Vector Database Integration
Role: Packaged Application Development Associate
Duration: Oct 2024 – Present
Organization: Accenture, India

Description:
Designed, developed, and deployed a fully automated data pipeline to streamline the ingestion, transformation, and storage of high-volume datasets using **Python**. Upon dataset arrival, the system leverages **Pandas** for data cleaning and transformation, followed by integration with the **Milvus** vector database for high-speed similarity search and retrieval. The pipeline is orchestrated via **cron jobs** and **Azure Logic Apps**, enabling seamless monitoring and triggering of processes through RESTful Flask APIs.

This end-to-end automation drastically reduced manual intervention, ensured consistent data quality, and decreased overall processing time from hours to minutes.

Tools & Technologies: Python, Flask, Pandas, Milvus, Azure DevOps, Azure Logic Apps, Cron Scheduling
Outcome: Delivered a scalable, production-grade pipeline that automates dataset ingestion, processing, and vector database insertion with minimal manual effort.
Skills: Python · Pandas · REST APIs · Vector Databases (Milvus) · Azure App Service · Automation · CI/CD

AI-Trained Chatbot with Vector Search and RAG Architecture
Role: Python Developer Intern
Organization: Nyl.Technologies / Smartseas.ai
Duration: 2023 Dec - 2024 April

Description:
Designed and developed an intelligent, AI-powered chatbot capable of understanding and responding to user queries using **retrieval-augmented generation (RAG)**. Leveraged **Flask** to build the web interface, **LangChain** for orchestration of natural language tasks, **OpenAI API** for GPT-based language understanding, and **Pinecone** as a vector database for semantic search over custom data.

Implemented end-to-end chatbot functionality, where the user's query is vectorized and compared against stored document embeddings in Pinecone. The most relevant content is retrieved and fed to OpenAI's model to generate a context-aware response in real time.

Tools & Technologies: Flask, LangChain, Pinecone, OpenAI API, Python
Outcome: Delivered a production-ready chatbot capable of intelligent, context-aware conversations with dynamic data retrieval via vector search.
GitHub: [Retrieval-Augmented Generation – GitHub Repository](#)
Skills: Flask · LangChain · Vector Databases (Pinecone) · OpenAI GPT API · Python · NLP · RAG Architecture

Awards

Accenture TechExpressWay MeritHolder

Certificates

Microsoft Certified: Azure AI Fundamentals – AI 900

Hobbies

- Leet Coder
- Anime Watcher

Languages

English, Tamil

Declaration

"I hereby declare that the facts given above are genuine to the best of my knowledge and belief."