SAMBHAJI SHINDE

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SambhajiShinde28

HackerRank

in Sambhaji Shinde

ABOUT ME

Passionate AI enthusiast with strong expertise in Python, Data Analysis, Machine Learning, and Deep Learning. Skilled in building and optimizing Generative AI solutions, including Retrieval-Augmented Generation (RAG). Eager to leverage technical knowledge and creativity to develop intelligent, real-world AI applications.

EDUCATION

- Artificial Intelligence and Data Science Maharashtra Institute of Technology
- Diploma in Information Technology Government Polytechnic, Nanded

86.38% | July 2022

CGPA: 8.9 | (Nov 2022-Present)

ACADEMIC PROJECTS

1. PDF Insights - Generative AI with RAG [visit]

- Developed a Retrieval-Augmented Generation (RAG) pipeline using LangChain to enable intelligent Q&A over PDF documents.
- Implemented a custom memory-augmented RAG architecture for maintaining conversational context across multiple queries.
- Designed and optimized a unique architecture to enhance accuracy and relevance of responses, going beyond standard RAG implementations.
- Integrated embedding models, vector databases, and conversational memory for a seamless user experience.
- Demonstrated ability to build end-to-end Generative AI solutions, showcasing expertise in LLMs, LangChain, and custom AI pipelines.

2. Natural Language to SQL Assistant (LangChain + Gemini + MySQL) [visit]

- Built an AI-powered SQL assistant enabling users to query a MySQL database using natural language.
- Integrated LangChain with Google Gemini model to convert user queries into optimized SQL statements.
- Designed an end-to-end pipeline that executes SQL queries, retrieves results, and presents them in a human-readable format.
- Showcased ability to combine LLMs, LangChain, and relational databases to create practical, realworld Generative AI applications.
- Implemented with a focus on accuracy, scalability, and usability for database-driven insights.

3. Bank Marketing Data Analysis (EDA & Insights) [visit]

- Conducted end-to-end exploratory data analysis (EDA) on 4,500+ customer records to identify key factors influencing term deposit subscription.
- Performed data cleaning, feature engineering, and missing value analysis, ensuring high-quality datasets for further modeling.
- Applied statistical techniques (Chi-square tests, T-tests) and visualizations (histograms, KDE plots, bar charts, heatmaps) to uncover customer behavior patterns.

- Analyzed relationships between demographics, financial attributes, and marketing outcomes, highlighting imbalances and key predictors (e.g., job type, marital status, education, campaign frequency).
- Demonstrated strong skills in Python (Pandas, NumPy, Matplotlib, Seaborn), statistical analysis, and data storytelling for business decision-making.

SKILLS

- **Soft Skills:** Communication, Problem-Solving, Analytical Thinking, Teamwork, Leadership, Management, Adaptability.
- **Hard Skills:** Python, Data Analysis, Machine Learning, Deep Learning, Generative AI, GitHub, LangChain, MySql, RAG.

ACHIEVEMENTS

- Earned the Warrior and Fledgling Badges from Infosys for exceptional problem-solving skills and consistent progress in foundational tasks.
- Earned IBM badges in EDA for ML, Software Engineering, and Deep Learning, highlighting skills in data analysis, system design, and AI deployment.