Mananpreet Singh

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Summary

Experienced Data Scientist skilled in Gen AI, RAG, statistical analysis, machine learning, and data visualization. Proficient in Python and SQL with a proven track record of solving business problems and driving data-driven decision-making. Strong communicator and collaborator with a passion for leveraging data to optimize processes and drive innovation. Results-oriented and adaptable to fast-paced environments. Experienced in developing Gen AI solutions to automate and optimize tasks, enhance operational efficiencies, and deliver actionable insights. Ready to contribute expertise and leadership to drive the success of data-driven initiatives.

Experience

Gen AI Engineer

Infosys • Gurugram, India
12/2023 - Present
Work Experience Summary:

- Developed a RAG (Retrieval-Augmented Generation) chat bot using LangChain for a multinational corporation, enabling seamless retrieval of company information from documents.
- Engineered a vector store in Azure Cosmos DB for efficient storage and retrieval of PDF documents, employing LangChain for document chunking and upload.
- Integrated OpenAI's language models for chat completion and document embedding, ensuring precise responses and contextual document references.
- Created a user-friendly interface using Streamlit, enhancing usability and accessibility for corporate users.
- Deployed the solution on Azure Web App, ensuring scalability and seamless integration with existing corporate systems.
- Collaborated closely with stakeholders to gather requirements and optimize workflows, significantly improving internal information retrieval processes.

Data Scientist

Nagarro • Gurugram, India
09/2021 - 12/2023
Work Experience Summary:

- Played a pivotal role in a lead management project for a finance company, managing a high volume of leads from diverse online and retail channels.
- Applied advanced Machine Learning techniques, including supervised classification models like XGBoost and LightGBM, to identify and prioritize potential leads effectively.
- Conducted thorough hyperparameter tuning using techniques such as grid search and randomized search to optimize model performance and accuracy.
- Implemented MLflow to track metrics and parameters, facilitating transparent model performance evaluation and fine-tuning of hyperparameters.
- Achieved significant improvements in sales and conversion rates through data-driven lead prioritization strategies.
- Collaborated closely with cross-functional teams to gather requirements and ensure seamless integration of Machine Learning solutions into existing workflows

Education

Bachelor of Technology (Information Technology)

Bharati Vidyapeeth's College of Engineering
- Graduated with 7.8 CGPA

Skills

Python, Gen AI, Machine Learning, Prompt Engineering, Artificial Intelligence, SQL, Langchain, Streamlit, Data Analysis, Statistical Analysis, Data Visualization, Problem Solving, Collaborative Skills

Certificates

• Microsoft Certified: Azure Fundamentals,
• Microsoft Certified: Azure Data Scientist Associate
• DeepLearning.AI: LangChain for LLM Application Development
• DeepLearning.AI: LangChain Chat with Your Data