Sachin Saini

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Summary

Data scientist with 2+ years of experience in developing machine learning models and Gen AI Solutions.Passionate about harnessing the power of data to drive informed decision-making and optimize organizational performance.

Education

Hindu College, University Of Delhi
Masters in Operations Research | 06/2022

Keshav Mahavidyalaya, University Of Delhi
B.Sc Mathematical Sciences | 06/2019

Experience

Cognizant | Chennai, India
Data Scientist | 07/2022 - Present

- Developed **Machine Learning Predictive Model** to predict Net Promoter Score using Project Customer Satisfaction and Customer Rating Survey data. Built **XGBoost Model** with **K-Fold Cross Validation** to acheive **82% accuracy.**
- Developed and deployed a **Gen AI Search Engine Optimization content generation** tool by leveraging **Azure GPT-4 Turbo** large language model.Built Restfult APIs using Flask to deploy it on **Azure App Services**.
- Implemented **weeco aideml Autonomous Agent** powered by Large Language Models (LLMs), effectively writes code and systematically searches for better designs.
- Written Python scripts using the **Pyomo** optimization modeling library to solve complex **Operations Research problems** and created a comprehensive dataset of it.
- Designed and implemented **conversational chatbot** for Operations Research using Generative AI Language Models, including **Azure OpenAI O1-preview, OpenAI GPT-4, AWS OPUS3, and Gemini 1.5 pro**. The chatbot intelligently formulates mathematical model formulation based on user input and generates optimized Pyomo code to solve the problems efficiently.
- Implemented **TaskWeaver, a code-first agent framework**, to streamline data analysis, automate tasks, and generate valuable insights, significantly reducing manual effort and accelerating data-driven decision-making.
- Built **Natural Language Query to Google Big Query** POC by integrating GPT4 LLM using Gradio.
- Engaged in implementing **Prompt Engineering Research Papers** such as Auto Plan,Reflexion,Multi Agent Debate,Plan and Solve etc.

Certifications

- **Microsoft Certified: Azure Fundamentals**
- **Python for Data Science,**Udemy
- **Machine Learning: The Complete Machine Learning Course**, Udemy
- **The Complete SQL Bootcamp: Go from Zero to Hero**, Udemy
- **Building Generative AI Applications using Gradio**, deeplearning.ai

Skills

Python, Machine Learning, Flask, Gradio, Generative AI, Prompt Engineering, Azure , SQL, AWS EC2, Scikit-learn

Languages

English, Hindi