

# Sachin Saini

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## Summary

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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

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

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

## Experience

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

- Developed Machine Learning Model to predict Net Promoter Score using Project Customer Satisfaction and Customer Rating Survey data. Built XGBoost Model with K-Fold Cross Validation to achieve 82% accuracy.
- Developed and deployed a Gen AI Search Engine Optimization content generation tool by leveraging Azure GPT-4 Turbo large language model. Built Restful APIs using Flask to deploy it on Azure App Services.
- Built Natural Language Query to Google Big Query POC by integrating GPT4 LLM using Gradio.
- 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.
- Engaged in implementing Prompt Engineering Research Papers such as Auto Plan, Reflexion, Multi Agent Debate, Plan and Solve etc.

## Certifications

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- 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

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

## Languages

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English, Hindi