SACHIN SAINI

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EXPERIENCE

Cognizant, Chennai   **(July 2022 – Present)**
Programmer Analyst, Data Scientist

1. Predicting CRS Net Promoter Score using Project Customer Satisfaction Data:
- Developed predictive models utilizing XGBoost for Customer Relationship Survey (CRS) Net Promoter Score, achieving 84% training and 75% test accuracy.
- Managed missing data through Singular Vector Decomposition and descriptive statistics.
- Conducted hyperparameter tuning and K-fold Cross Validation for model optimization.
- Presented insights and recommendations to stakeholders to enhance customer satisfaction.

2. Built Generative AI Content Generation Tool for Search Engine Optimization:
- Developed a tool to generate Topic, Keywords, Title, Alt text, and blog posts for cog.com website, focusing on enhancing search engine optimization (SEO) efforts.
- Implemented Prompt Engineering Techniques like Few Shot Learning with Reflexion to improve the tool's performance and adaptability.
- Collaborated with content writing and SEO teams to align generated content with SEO best practices and Cognizant's style guide.
- Built restful APIs with Flask integrated with GPT4 at backend and deployed the tool on Azure app services for scalability and reliability.

3. Natural Language Query to Google Big Query Generator:
- Created a demo application to generate Google Big Query code from natural language queries.
- Leveraged 3-shot learning with Reflexion prompt engineering techniques for accurate query generation.
- Designed an intuitive user interface using Gradio for user-friendly interaction.

RESEARCH EXPERIENCE

- Investigated and implemented advanced prompt engineering techniques including Chain of Thought, Fewshot Learning, Multi-Agent Debate, and reflexion to enhance model performance on JEE Dataset.
- Applied these techniques to achieve up to 55% accuracy on the JEE Bench dataset, demonstrating the effectiveness of prompt engineering in improving model accuracy.

EDUCATION

- Master of Operational Research, Hindu College, University of Delhi, 2022,
- Bachelor of Mathematical Sciences, Keshav Mahavidyalaya, University of Delhi, 2019
- CBSE Class 12 (Science), Vijaya Sr. Sec. School, Bahadurgarh, Haryana, 2016
- CBSE Class 10, Vijaya Sr. Sec. School, Bahadurgarh, Haryana, 2014

OTHER

- **Achievements:** Recognition from Senior Vice President of Cognizant Marketing Team for delivering AI driven solutions, served as a member of NSS for1 year (2016), Participated in Inter College Cricket Tournaments.
- **Technical Skills:** Python, Machine Learning, Prompt Engineering, Fundamentals of SQL
- **Certifications:** Python for Data Science, Udemy, The Complete SQL Bootcamp: Go from Zero to Hero, Udemy, Machine Learning, The Complete Machine Learning Course, Udemy