

Sahibpreet Singh

Data Scientist

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PROFILE

Accomplished Data Scientist specializing in **NLP** and **Conversational AI**. **Top Kaggle** mentor, ranked within the **top 0.01%**. Expert in cutting-edge models, delivering innovative solutions, and optimizing decision-making with data-driven insights. Strong analytical abilities, exceptional problem-solving skills, and a passion for impactful results.

PROFESSIONAL EXPERIENCE

Tatras Data

Data Scientist

11/2022 – 12/2023

Chandigarh, India

- Successfully delivered the product for **Text-to-SQL** problem using LLM with deployment using **Streamlit** and with **Langchain** as Framework.
- Led the development of a centralized system aimed at streamlining the creation of **contextual chatbots** for diverse counties across the United States.
- Transformed the chatbot development process by introducing a centralized service, empowering designated leads to efficiently create chatbots for multiple counties. Achieved a significant reduction in development time from an average of **4 days to just 19 hours**, optimizing productivity and ensuring timely delivery.

ZS Associates

Data Science Associate

11/2021 – 11/2022

Gurugram, India

- Developed and implemented an end-to-end machine learning model to analyze customer transactions. This initiative led to a significant **62% increase in accuracy**
- Worked closely with a leading global pharmaceutical industry leader **Pfizer** on a regression challenge to predict competitor shortages. Utilizing advanced techniques such as **DATAIKU**, **RabbitMq**, **CELERY**, and machine learning models like **SBERT** and **Roberta**, the project enabled the client to anticipate future shortages, empowering them to proactively optimize their inventory management strategy.
- Led the development of a forecasting model to enhance company productivity and efficiency. This initiative successfully generated an impressive **\$325k in additional annual revenue**, highlighting the model's effectiveness in driving tangible business outcomes.

Tatras Data

Junior Data Scientist

07/2020 – 10/2021

Chandigarh, India

- Led a team in developing a **Contextual Chatbot** for a Data Science portal, resulting in a significant revenue **increase of 128%** in the first year of production.

- It implemented the chatbot using Python and the **RASA** framework, leveraging its capabilities to understand user queries and provide contextually relevant responses.
- Implemented and deployed a chatbot containerizing the application using **Docker**. Integrated the chatbot with **RabbitMQ** as the messaging system and utilized **Rasa X** for testing and optimizing its performance. The chatbot's successful implementation significantly improved user experience and contributed to revenue growth for the client.

SKILLS

Data Visualisation (Plotly, Matplotlib, Seaborn)

Generative AI (Langchain, Llamaindex, RASA)

Deployment (Flask)

Data Crunching/Modelling (Numpy, Scipy, Pytorch, Sklearn)

EDUCATION

B.Tech

Punjabi University

2016 – 2020

PATIALA, India

- Co-founded and led the Cybersecurity and Artificial Intelligence Cell, a pioneering initiative within the Engineering Department of the university.
- Worked in a Team to Deliver a Web-Based System for the Education of Children in Blind Schools.

AWARDS

Best Mentor

Kaggle

- Won the **BEST MENTOR** of the program award for teaching and guiding students about data science around the globe.

Top Performer IEEE Hackathon

CHARUSAT UNIVERSITY, IEEE

- Led a team of 3 data scientists which eventually won 2nd prize in a data science hackathon (focused on NLP).