

# SHUCHISMITA MALLICK

## Data Scientist/ ML Engineer

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Kolkata-India

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## EXPERIENCE

### Data Scientist

#### Enquiries

Sept '23 – Present

Bangalore,India- WFH

- **Tech Stack:** Python, SQL, Regression, Classification, Time Series, Databricks-MLops
- Led the creation and execution of data science projects, constructing proofs of concept (POC) tailored for EdTech solutions and mentoring aspiring decision scientists.
- Conducted data analysis and used statistical models and machine learning techniques to evaluate channel effectiveness and develop strategies for redistributing budgets, maximizing sales, and profitability.
- Developed and deployed machine learning models to Databricks endpoints for real-time customer risk prediction, improving underwriting efficiency, and gained expertise in Databricks ML work-flows, including feature engineering and model deployment.
- Built time series models for demand forecasting, driving accurate demand planning and inventory optimization.

### Data Analyst

#### Enquiries

July '22 - June '23

Bangalore,India- WFH

- **Tech Stack:** Python, SQL, PowerBI
- Created multiple data analysis projects in Python, SQL, and Power BI across various domains to address the company's needs.
- Conducted live sessions with clients to deliver hands-on learning experiences, enabling them to enhance their skills effectively.
- Designed and implemented deep learning models with a **computer vision pipeline using CNNs** to classify traffic signs from image datasets, advancing automated driving systems.
- Implemented **uplift modeling techniques** to predict the incremental impact of marketing strategies, enabling personalized campaigns by identifying customers likely to respond positively.

### Data Analyst Intern

#### Enquiries

April '22 – June '22

Bangalore,India- WFH

- **Tech Stack:** Python, SQL
- Conducted live sessions with clients by creating hands-on projects in **Python** and **MySQL**, fostering an interactive and practical learning experience.
- Designed scenarios based on **e-commerce** and **sports domains** to enhance client understanding of **data processing and wrangling techniques**.

## EDUCATION

### M.Sc. IT (Artificial Intelligence)

#### Maulana Abul Kalam Azad University Of Technology

2020-2022

### B.Sc. (Hons.) Mathematics

#### Hooghly Mohsin College (Burdwan University)

2017-2020

## TECHNICAL SKILLS

- **Programming Languages:** Python, SQL
- **Machine Learning:** Regression, Classification, Clustering, Exploratory Data Analysis, Feature Engineering, Hyperparameter Tuning, Model Evaluation, MLflow, Datasets Curation
- **Version Control and Collaboration:** Git, MLflow, VS Code
- **Databases:** MySQL, PostgreSQL
- **Cloud Platforms:** Databricks, Render

## PROJECTS

### Book Recommendation Chatbot

- **Tech Stack:** Hugging Face Sentence-Transformer, Pinecone, LangChain, Ollama, Streamlit, Python.
- Designed a chatbot using NLP, embeddings, and RAG to provide personalized book recommendations based on user queries, leveraging Pinecone for fast similarity search and Ollama for conversational responses.
- Developed an interactive web app with Streamlit, featuring dynamic recommendations, query classification, and conversational flow for enhanced user engagement.

[Demo Video](#) [GitHub Repo](#)

### customer churn prediction

- **Tech Stack:** Python, Streamlit, Render
- Designed the app with features like data exploration, prediction generation, and seamless deployment using Scikit-learn, Pandas, and Joblib.
- Developed a customer churn prediction web app using Streamlit, with interactive visualizations and machine learning models deployed on Render for scalability.

[Demo App](#) [GitHub Repo](#)