

Rajdeep Sarkar

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PROFILE

As a Data Scientist with 5 years of experience in data engineering and analysis, I specialize in predictive modelling, forecasting, and working with large datasets. My expertise includes utilizing Python, R, SQL, Tableau, Hadoop, and Spark for various projects, such as text mining, image processing, time series analysis, and classification algorithms. My passion lies in using data to uncover insights, solve problems, and develop innovative solutions. I am currently seeking opportunities to further advance my career in data science.

EDUCATION & QUALIFICATIONS

[University of Bristol – MS in Data Science \(2020-2021\)](#)

[West Bengal University of Technology - Master's in computer applications \(2015-2018\)](#)

[West Bengal University of Technology -Bachelor's in computer applications \(2012-2015\)](#)

WORK EXPERIENCE

Data Engineer | Emtrax Technologies Private Limited

Aug 2021 to Present

- Developed and maintained scalable data pipelines to ingest, process, and transform large volumes of data.
- Designed and implemented data models and schemas for efficient data storage and retrieval.
- Collaborated with cross-functional teams to gather requirements and translate them into technical solutions.
- Optimized data workflows and implemented automation processes to enhance data quality and reliability.
- Conducted performance tuning and troubleshooting of data processing systems.

Research Associate | University of West of England, Bristol, BST

Jul 2022 to Aug 2022

- Research the Turing Institute & their priorities in Artificial Intelligence & Data Science
- Using the available networks, gather data around UWEs Turing Network's specific expertise within AI & Data Science and align these with the capabilities of the Turing Institute including highlighting where UWE has additional expertise. This activity involves conducting interviews & developing surveys/questionnaires.
- To manage and deliver the Turing Network capability mapping project.

Post Graduate Hall Representative | University Of Bristol Student Union, Bristol, BST Oct 2020 to Oct 2021

- Develop a feeling of community to enhance the residence hall experience for students.
- Responsible for hosting the summer ball (The first major event of the university after lockdown)

Data Analyst | Divinotech India Pvt Ltd, Kolkata, West Bengal, India

Jul 2018 to Jul 2019

- Mid-level IT company in Kolkata India

- Performed data analysis and visualization to derive insights and support decision-making processes.
- Developed and maintained data dashboards and reports for key stakeholders.
- Collaborated with business teams to define metrics and KPIs for measuring data quality and performance.
- Conducted data cleaning and pre-processing tasks to ensure data accuracy and consistency.

KEY SKILLS

Programming languages: Python, SQL, Java, C++, C

Data processing and ETL tools: Apache Spark, Apache Hadoop, Apache Kafka

Database technologies: SQL, NoSQL (MongoDB, Cassandra)

Data modelling and warehousing: MySQL, PostgreSQL, Amazon Redshift

Data visualization: Tableau, Power BI

Version control: Git

Cloud platforms: Amazon Web Services (AWS), Microsoft Azure

PROJECTS

Time Series Forecasting of Stock Market Data

- Utilized historical stock market data to develop a time series forecasting model.
- Implemented various algorithms such as ARIMA and LSTM to predict future stock prices.
- Analyzed model performance and provided insights on potential investment opportunities.

Twitter Sentiment Analysis using Big Data and Hadoop

- Extracted a large volume of tweets using the Twitter API.
- Leveraged Apache Hadoop ecosystem to process and analyze the collected data.
- Performed sentiment analysis to determine the overall sentiment of tweets related to a particular topic or brand.

Real-time Data Streaming and Processing at Emtrax

- Built a scalable and fault-tolerant data streaming platform using Apache Kafka.
- Designed and implemented data ingestion and processing workflows to handle real-time data streams.
- Integrated with downstream systems for real-time analytics and monitoring.

ADDITIONAL INFORMATION

Certification- AWS academy cloud foundations

Languages – Bengali; English; Gujarati; Hindi; Punjabi