

Sayantika Saha

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EDUCATION

University of Calcutta, Kolkata

June,2022

Master of Science, Economics (Specialization in International and Labor Economics)

University of Calcutta, Kolkata

Oct,2020

Bachelor of Science, Economics

PROFESSIONAL EXPERIENCE

Accenture Solutions Pvt Ltd, Kolkata, West Bengal

August,2023 – Present

Associate, IT Service Management

- Leveraged SQL to analyze complex datasets, extracting actionable insights and producing critical reports that supported data driven decision making.
- Transformed and validated data in Excel with meticulous attention to detail, ensuring accuracy before exporting and integrating into PostgreSQL for advanced analysis.
- Designed and implemented interactive Power BI dashboards, improving program performance tracking and visibility within the first month of deployment
- Performed region specific data analysis to generate timely, client focused reports.
- Orchestrated data synchronization across platforms using Azure Data Factory, ensuring operational continuity and maintaining data integrity.

Xeam Ventures Pvt Ltd, Kolkata, West Bengal

June,2022– June,2023

Junior Consultant

- Managed and reconciled diverse datasets, ensuring accuracy for demographic research and public health analysis
- Analyzed census data to uncover housing and hygiene trends, supporting policy development and public health initiative.
- Supervised part time staff during field visits, maintaining data collection accuracy and project timelines.
- Contributed to crisis management strategies, enhancing organizational readiness for emergency responses.

ACADEMIC PROJECT EXPERIENCE

Aero Predict: Leveraging Machine Learning for Airline Fare Prediction

- Built a predictive model for flight prices developing a robust data pipeline in Python using libraries such as Pandas, Numpy, Matplotlib.
- Preprocessed 10,000+ flight records, handling missing values, transforming date/time data, and feature engineering new features to improve model accuracy.
- Cleaned and transformed complex time-series and categorical data while uncovering patterns to inform feature selection and optimize machine learning workflows.

Precision Pay, A hybrid ML Approach to Fraud Detection

- Developed a credit card fraud detection model using hybrid sampling techniques, combining SMOTE oversampling and Random Undersampling.
- Built and evaluated models with logistic regression, random forest, and XGBoost optimizing for precision, recall, AUROC to enhance fraud detection accuracy.

ADDITIONAL INFORMATION

Software and Programming Languages: Python, R, MATLAB, MySQL, Tableau, Excel, Octave, Power BI, Tableau, Azure Languages: English, Bengali, Hindi

Certification: Cisco Data Analytics Essential Course, Skill Nation Business intelligence using Power BI

Skills: Probability Theory, Hypothesis Testing, Linear Regression, Generalized Linear Models, Machine Learning (Supervised and Unsupervised), Regularization, Ordinal Regression, Time Series Analysis, Forecasting, Monte Carlo Simulation, Linear Programming.

Ongoing Course: Introduction to Statistical Learning using Python