# MOUSHUMI SIKDAR

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## EDUCATION

**Jadavpur University**                                                                                        Kolkata
M.Sc Chemistry *GPA: 7.8*                                                                         May 2010 - June 2012

**Languages Known**
English (C2 level), German (A2 level)

## EXPERIENCE

**Sears India**                                                                                                      Pune
*Senior Data Analyst*                                                                             April 2022 - Present

- Engineered an automated anomaly-detection engine that surfaced revenue outliers across 50+ regions, eliminating manual checks and enabling interventions that boosted regional revenue performance by 8–12%.
- Applied survival analysis to model customer time-to-churn, improving targeting accuracy for retention programs by 30% and reducing customer churn by up to 10% in pilot cohorts.
- Built a statistically robust Bayesian performance-ranking framework that generated credible rankings for a technician workforce of 900–1,200 employees, increasing fairness and accuracy of performance evaluations.
- Increased development efficiency by 40% through AI-assisted coding (Windsurf), accelerating ETL script creation, model prototyping, and code reviews across analytics projects.

**Innodatatics**                                                                                                    Remote
*Data Science Intern*                                                                            Aug 2021 - October 2021

- Developed an email classifier to categorize emails into abusive & non-abusive categories. Link-https://github.com/M-S8/Email-Classifier
- Collaborated with the Data Science Team to deploy a sentiment analysis model on customer feedback, leading to improvement in overall product sentiment assessment.

**Chegg**                                                                                                           Remote
*Subject Matter Expert*                                                                         May 2017 - March 2020

- Worked as a subject matter expert, providing assistance to Chegg students with their chemistry assignments.

**Indian Institute of Engineering and Science(IIEST)**                                         Kolkata
*Junior Research Fellow*                                                                          June 2012 - June 2015

- Worked as junior research fellow on DST funded solar cell project to synthesize solar cells using electrochemical methods

## TECHNICAL SKILLS

| | |
|---|---|
| Programming Language: | Python, SQL |
| Machine Learning & Statistics: | Regression, Clustering, Forecasting |
| Data Warehouse: | Snowflake, ETL/ELT Pipelines |
| Data Visualization & Other Tools: | Tableau, Git, Windsurf |

## CERTIFICATIONS

**Data Science Certification from ExcelR Institute**
Developed a comprehensive understanding of data life cycle, machine learning algorithms and deployment of models.                                                                                           September 2021

**IBM Data Science Professional Certification from Coursera**
Gained expertise in exploratory data analysis using Python libraries like Pandas and Numpy along with Machine Learning basics.                                                                            February 2021

## PROJECTS

**Business Location Optimization in Nice (Geospatial Analysis + Foursquare API)** *Python, Foursquare API, Pandas, Folium, K-Means, Geospatial Analysis*
https://github.com/M-S8/Coursera_Capstone
Performed end-to-end geospatial market assessment for launching a business in Nice, France. Collected and analyzed Foursquare venue data, mapped neighborhood coordinates, and identified high-footfall zones through venue frequency and category analysis.