

SOHAM CHATTERJEE



ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2022	B.E. (Hons.) Electrical Engineering	Jadavpur University	9.21/10
2018	CLASS XII	Apeejay School, Salt Lake, Kolkata	93.33 %
2016	CLASS X	Delhi Public School, Megacity, Kolkata	96.33 %

KEY SKILLS/TOOLS SAS Programming, Python, SQL, Power BI, Tableau, Anaplan, Statistical Data Analysis, R Programming

WORK EXPERIENCE (12 Months)

exl Service.com (I) Pvt. Ltd.	Business Analyst	Gurugram (Jul '22 - Jul '23)
Key Responsibilities	<ul style="list-style-type: none">■ Data reconciliation for Insurance Claims data for the East Analytics Region comprising 7 APAC countries.■ Book-close tasks for the State Management Reporting Tool (SMRT) PowerBI model (US FP&A region).	
Data Reconciliation	<ul style="list-style-type: none">■ Analysed the inconsistencies between the Data Lake values & market values for about 1 million records.■ Addressed incorrect source-to-target mapping, missing values, and incorrectly populated values.■ Correctly collated the data into Data Lake alongside source teams & classified causes of loss using SQL.■ Leveraged SQL Server to inspect & minimize the initial variances of about 20% in the KPIs, down to <1%.	
Dashboarding & Planning	<ul style="list-style-type: none">■ Presented the comparison of Data Lake numbers & market numbers with dashboards using MS Power BI.■ Analysed dataflows, transformations, and performed variance analyses on the SMRT Power BI model.■ Leveraged SAS queries to pull out fresh data from the server & resolved all problems for smooth reporting.■ Completed Anaplan Model Building L1 Certification, worked on financial model building, US FP&A region.	

AWARDS AND ACHIEVEMENTS

Institute Rank	■ Placed in the top 20%ile of academic performers among 62 students of 9th Batch of PGDBA (2023-2025).
Academic Achievements	<ul style="list-style-type: none">■ Acquired a spot in the Top 10 Unstoppable College Champions, IIM Calcutta, Unstop Talent Awards'24.■ WBJEE 2018 Rank 353 off 106k test-takers (among top 0.3%ile), Rank 15 off 119 students in undergrad.■ Offered a full tuition fee waiver for the B.Sc. (Honours) programme in Mathematical Sciences, CMI 2018.■ Secured AIR 5 in the M.Tech in Quality, Reliability & Operations Research (QROR) Examination, ISI Kolkata.
Case Competitions	<ul style="list-style-type: none">■ 2nd off 5200+ registrations in Trilytics'23, PGDBA with Word Wide Technology (WWT), won cash ₹25k.■ 2nd off 1500+ registrations at Insight Masters, ISB Hyderabad at Advaita 2023, won a cash prize of ₹45k.■ 2nd off 627 participants in the dashboarding competition E2A, in Nova Exilaro'24, XLRI Delhi, won ₹12k.

ACADEMIC PROJECTS

Uber Price Prediction (Regression)	<ul style="list-style-type: none">■ Predicted Uber Ride Prices on data containing 200k records using OLS Regression as a baseline model.■ Treated outliers, detected multicollinearity using correlation heatmaps and VIF and tackled it using PCA.■ Used ANOVA to judge significance of MLR, and t-test for feature selection. Validated all model assumptions.■ Leveraged GridSearchCV to tune hyperparameters for Ridge & Lasso Regression, achieved best R² of 0.72.
Customer Uplift Prediction (Uplift Modelling)	<ul style="list-style-type: none">■ Recommended optimum range of customers for maximum profit for the Criteo Uplift Data (~14M records).■ Statistically asserted CATE, treated class imbalance with Random Under Sampler for majority resampling.■ Predicted uplift using CausalML with XGBoost as base classifier, achieved best AUUC 0.64 with S-Learner.
TMDb Recommender System (Clustering, NLP)	<ul style="list-style-type: none">■ Built content-based recommender system using TMDb dataset (~5k movies & credits), hosted on Streamlit.■ One-hot encoded categorical type, extracted dictionary types with AST, TF-IDF vectorized textual features.■ Used K-Means, DBSCAN & Agglomerative clustering, achieved best silhouette score of 0.59 with DBSCAN.■ Built graph network for movies (networkx), used Adamic-Adar Index to recommend from similar clusters.

ADDITIONAL PROJECTS

AIDS Fatality Detection (Classification)	<ul style="list-style-type: none">■ Predicted fatality status using the AIDS Clinical Trials Group Study 175 Dataset (~2k records, 23 features).■ Treated multicollinearity using concepts of partial correlation, treated class imbalance using SMOTE.■ Achieved a minority recall 0.68 with Logistic Regression, improved to 0.80 using CatBoost, ROC-AUC 88%.
Image Captioning (CNN, LSTM)	<ul style="list-style-type: none">■ Employed transfer learning on ResNet-50 encoder & LSTM based decoder, for automatic image-captioning.■ Used nucleus and temperature sampling to build vocabulary with NLTK, achieved a ROUGE score of 0.2.
Petrol Price Prediction (Time Series)	<ul style="list-style-type: none">■ Forecasted the petrol prices for the upcoming 4 weeks, using ~200 weeks of historical data using SARIMA.■ Used ADF test to verify stationarity, differencing for trend removal, ACF & PACF plots to fix SARIMA orders.■ Verified residual whiteness via Ljung-Box statistic, selected the model with best AIC, achieved MAPE 3.5%.

POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

PGDBA External Relations Cell	<ul style="list-style-type: none">■ PGDBA LinkedIn follower count ↑200+ within 4 months, 7k total followers reached, YouTube views ↑3k.■ PGDBA registrations ↑43%, Instagram views ↑12k, promoted brand awareness, resolved aspirants' issues
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ELECTIVES : Deep Learning, Product Analytics

INTERESTS : Reading, EDM, Football, Anime