

AMRITA DE

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EDUCATION

Tata Institute of Social Sciences, Mumbai

M.Sc. Analytics

May 2023

SGPA 7.9

Government College of Engineering and Textile Technology, Serampore

B.Tech. Computer Science and Engineering

June 2019

CGPA 8.93

Serampore Girls' High School

Higher Secondary PCM

May 2015

90.4%

SKILLS

Tools and Technologies: Python3 (Pandas, NumPy, Matplotlib, sklearn), ML Algorithms, SQL, Advanced MS Excel, A/B testing, Tableau, Power BI, Git, Google Analytics.

Other Skills: Statistical analysis, Predictive modeling, Problem Solving, Design Thinking, Decision Making, Analytical thinking, Sentiment Analysis, Inventory management, Product Strategy, Customer Segmentation.

WORK EXPERIENCE/ INTERNSHIPS

Data Science Intern at Bosch Centre for Artificial Intelligence

June 2022 - November 2022

Bengaluru, India

- Research and development of data science solutions using different statistical and ML methods to solve complex inventory optimization problems, which leads to inventory reduction of 7-20%.
- Identification and implementation of different Safety Stock and Re-Order Point calculation methods.
- Combining results from different model(s) using ensemble learning to achieve optimal inventory levels and validating the solution on the historical demand data from different Bosch plants.
- Building Tableau dashboards to visualize Stock Out and Overstock situations with respect to next Lead Time demand for different plants.

Data Analyst Intern at IndiaSpend

November 2021- January 2022

Mumbai, India

- Extensively used Tableau and other online visualization tools to build graphics and visualizations for around [15 news reports](#) published on the platform. Increased impressions by 15.3% and boosted DAU by 49.2%. Analyzed the covid19 data for all states to understand the latest omicron surge based on no. of new cases, doubling time, and R-value. The news report was featured in [Business Standard](#).

System Engineer at Tata Consultancy Services

June 2019-August 2021

Kolkata, India

- Created reports by joining multiple tables from multiple databases using complex SQL queries.
- Analyzed massive and highly complex data sets, performing ad-hoc analysis and data manipulation.
- Coding in PL/SQL for new developments and code enhancements across various modules in Oracle Human Resource Management System for an Australian airline company, saving around \$1.5M annually.
- End-to-end development, requirements gathering, configuration, coding, testing, debugging, documentation of techno-functional components for several implementation projects.
- Interacting with users to understand customer pain points and providing them with timely, better solutions with zero customer escalation.

ACADEMIC PROJECTS

[Customer segmentation of a supermarket using K means clustering](#)

Using Python

- Build an unsupervised model to segment the customers of a popular supermarket store based on their RFM score. Steps include data preprocessing, choosing the number of clusters, running the algorithm, and analyzing the findings.

[AB testing for a new version of an e-commerce site](#)

Using Python, MS Excel

- Ran A/B testing in Jupyter Notebook to check if the new version of an e-commerce website will perform better or worse in terms of conversion rate. Steps include calculating sample size, preparing the data, sampling, testing the hypothesis and drawing the conclusions.

[Employee Attrition Prediction using Random Forest Classification Algorithm](#)

Using Tableau, Python

- Created a model that will predict employee attrition with an accuracy of 94.8%. Steps include EDA, Visualization, Feature Analysis, Feature Engineering, model building, and testing the model accuracy. Also, built three interactive dashboards in Tableau to deliver key insights into diversity profiles, the satisfaction of employees, recruiting sources & pay, and attrition. Tableau Viz Link: https://public.tableau.com/app/profile/amrita.de7431/viz/IIM_cal_casestudy_HRAnalytics/Story1

ACHIEVEMENTS AND CERTIFICATIONS

- Secured **1st position** in Analytics Case Competition organized by **IIM Calcutta**. Won **TCS Star of the Month Dec 2020** for exceptional performance in data masking activities.
- Oracle certified implementation specialist (EBS HCM). Member of [TISS analytics website](#) development team.