

Saikat Datta

Pursuing Applied Statistics and Informatics

Indian Institute of Technology - Bombay

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COURSE	COLLEGE/UNIVERSITY	YEAR	%
Master of Science	Indian Institute of Technology - Bombay	2023-2025	83.7
Bachelor of Science (Hons.)	St. Xavier's College (Autonomous), Kolkata	2019-2022	82.1
10+2 Level	Jadavpur Vidyapith	2019	94.4
Secondary Level	Jadavpur N. K. Paul Adarsha Sikshayatan	2017	95.4

ACADEMIC ACHIEVEMENTS

- Secured **All India Rank-78** in **IIT JAM MS** among **3119 candidates** conducted by IIT Guwahati [2023]
- Achieved **All India Rank-3** in **Delhi University Entrance Test** conducted by **National Testing Agency** [2022]
- Recipient of **INSPIRE Scholarship** for ranking in the top **1 percentile** in class XII board exam [2019 - Present]
- Obtained **perfect score** in **Statistics** in Higher Secondary Examination conducted by WBCHSE [2019]
- Attained a **flawless score** in **Mathematics** in Secondary Examination conducted by WBBSE [2017]

PROJECTS UNDERTAKEN

- Analysis of Wine Data** - UG Dissertation
Guide: Prof. Ayan Chandra | St. Xavier's College (Autonomous), Kolkata [2022]
 - Derived insights from the data through **EDA** and Data Visualization techniques using **ggplot2** in **R**
 - Obtained the **statistically insignificant** explanatory variables and discarded them before model building
 - Fitted a **Logistic Regression Model** to the data with an obtained **threshold probability** of **0.69** and achieved an **Area Under the Curve (AUC)** of **0.81** as determined from the **Receiver Operating Characteristic (ROC)** curve
 - Examined the goodness of fit of the final model using **Deviance** and **Generalized Pearson's χ^2 statistic**
- Classifying Diabetes cases in a Health Dataset** - Team project [2023]
 - Extracted insights** from health-related data and **identified key features** related to Type 2 diabetes
 - Collaborated with a team of three to classify diabetes cases using **machine learning techniques** (**Logistic Regression, Decision Tree, Random Forest** and **KNN**) on a data set with **21 features** and **over 250K data points**
 - Handled data **imbalance** through the implementation of the **under-sampling** technique
 - Achieved the **highest test accuracy (74%)**, **precision (83%)** and **recall (71%)** with **Random Forest**

PROFESSIONAL EXPERIENCE

- Research Analyst Intern** | University of California, Berkeley, Haas School of Business [Jun'22 - Jul'22]
 - Crafted compelling **visualizations** in **MS Excel** and delivered impactful presentations using **PowerPoint**
 - Collaborated as a member of a multidisciplinary **team** of **six** members in an office environment

PUBLICATIONS

- Dark Data: The Data Beyond Our Reach** | Joint Publication - Published in **Prakarsho XIV** [2022]
 - Addressed the **inaccessible data** and the data that often get overlooked using various real-life examples
 - Discussed about the challenges related to storage and analysis and emphasized the significance of such data

TECHNICAL SKILLS

- Programming Languages: **R** | **SQL** | **Python**
- Softwares: **Minitab** | **ETX** | **Tableau**
- Microsoft Office: **Excel** | **PPT** | **Word**
- Languages: **English** | **Hindi** | **Bengali**

KEY COURSES

Statistical Inference	Categorical Data Analysis	Probability Theory	Econometrics	Linear Algebra
Data Analysis using R	Design of Experiments	Large Sample Theory	Linear Models	Descriptive Statistics

- Online Courses: Introduction to Python** by DataCamp | **Intermediate SQL** by DataCamp [2023]
- Online Course: "Big Data Analytics: Opportunities, Challenges and the Future"** by Griffith University [2020]

INTERESTS

Statistical Modeling | Machine Learning | Data Analysis | Deep Learning

EXTRACURRICULAR ACTIVITIES

- Served as a **proofreader** on the **Editorial Committee** of **Prakarsho 2022** (Annual Departmental magazine) [2022]
- Working as a **Subject Matter Expert** in Statistics and Probability at **Chegg India Pvt. Ltd** [2022 - Present]
- Volunteered as a **student member** of the **National Service Scheme (NSS)** during undergraduate years [2019 - '22]
- Attained a **first division with distinction** in the **third-year painting examination** of Bangiya Sangeet Parishad [2013]