



Saikat Bera

📍 Kolkata, West Bengal, India | 📞 +91 9062794564

🐙 [berasaikat](#) | [in](#) [bsaikat](#) | ✉ saikatb@cmi.ac.in | 🌐 cmi.ac.in/saikatb

PROFILE

I did my bachelor's in statistics and am currently pursuing my master's degree from CMI. I enjoy solving interesting problems and developing innovative solutions. I have a strong willingness to learn, analyze and execute strategies, construct quantitative models, and conduct statistical analysis to develop innovative solutions.

EDUCATION

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|---|---------------------------------------|
| • Chennai Mathematical Institute
<i>Master of Science, 2022 - 2024(Ongoing)</i> | Data Science
CGPA: N/A |
| • Presidency University, Kolkata
<i>Bachelor of Science, 2019 - 2022</i> | Statistics
CGPA: 7.31/10.00 |

ACADEMIC PROJECTS

Visualisation and Exploratory Data Analysis on different data sets in R

PU Kolkata, CMI Chennai / Statistics, R — April 2022 - June 2022

- Performed graphical analysis with Shiny Dashboard on the World Happiness and Corruption (2015-20) data set. [🔗 Link](#)
- Outlier detection, searched for heteroscedasticity, autocorrelation, multicollinearity, the assumptions of the simple (/Multiple) linear regression model and fitting different models in the data sets (Chicago, econ, automp etc.). [🔗 Link](#)

Time series analysis on Stock prices of Tata Consultancy Services (2004 - 2021), Bombay Stock Exchange

Presidency University, Kolkata / Statistics, Python — April 2022 - May 2022

- Estimation of trend: method of moving averages and fitting various mathematical curves. Estimation of seasonal component by the Method of simple averages and ratio to Trend.
- I fitted models like an ARIMA model, VAR, SARIMA model, UCM, and Dynamic Factor models. [🔗 Link](#)

Image Classification using MNIST and Fashion MNIST Data Set [🔗 Link](#)

CMI, Chennai / Artificial Neural Networks — Nov 2022 - Dec 2022

- I investigated the performance of artificial neural networks of different complexities on MNIST. Also, I extended my analysis to the recently introduced Fashion-MNIST dataset.

TECHNICAL SKILLS

Programming Python (Pandas, NumPy, TensorFlow etc.), R (ggplot2, Shiny), SQL.

Miscellaneous L^AT_EX(Overleaf/R Markdown), Tableau, Power BI, Microsoft Office(Excel and PowerPoint), Git.

KEY COURSES

Postgraduate Programming and Data Structures (Python), Mathematical Methods – Analysis, R (Visualisation).

Undergraduate Probability and Probability Distributions, Linear Models, Statistical Inference, Econometrics, Regression Analysis, Survey Sampling, Statistical Quality Control, Time Series Analysis, Stochastic Processes, Operational Research (OR), Real Analysis, Metric Space, Linear Algebra, Design of Experiments.

Online Courses Supervised Machine Learning: Regression and Classification, Advanced Learning Algorithms.

AWARDS AND ACHIEVEMENTS

2019 - 2022 **Innovation in Science Pursuit for Inspired Research (INSPIRE)**, Issued by Department of Science and Technology, Government of India.

2019 - 2022 **SVMCM: Swami Vivekananda Merit-cum-Means Scholarship**, Issued by Govt. of West Bengal

POSITIONS OF RESPONSIBILITY

PREDICT Presidency University Statistics Society

Social Media Manager, PR Team

- Tried to promote a statistical community to help each other grow, develop and enrich ourselves collectively.
- Participated in organizing more than 10 different lectures on diverse topics by some eminent professors, researchers.