



Roudranil Das

📍 Kolkata, West Bengal, India 🌐 [Personal website](#)

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Profile

I am a student of mathematics, and I am interested in the applications of mathematical domain knowledge and machine learning in the fin-tech sector. Hence I am pursuing my data science degree from CMI.

Education

2022 - 2024 (ongoing) Tamil Nadu, India	M.Sc. Data Science Chennai Mathematical Institute
2019 - 2022 West Bengal, India	B.Sc. Mathematics (Honours) St. Xavier's College (Autonomous), Kolkata <u>CGPA</u> : 8.46

Projects

Oct 2021 - May 2022 Link	<u>Bayesian Analysis of Efficacy of the ChAdOx1 nCoV-19 (AZD1222) Vaccine</u> Tools used: Python , PyMC3 , Matplotlib St. Xavier's College, Kolkata – This is my UG dissertation. – Bayesian inference was used to compute the vaccine efficacy of the ChAdOx1 nCoV-19 (AZD1222) vaccine. Data was taken from randomized controlled clinical trials across 4 countries. – MCMC sampling was done by PyMC3 and visualisation by Matplotlib.
Aug 2022 - ongoing Link	<u>Financial Literacy among 18-35 Year Olds</u> Tools used: Python , NumPy , Pandas , Statsmodels , Matplotlib – This is an ongoing project I am doing as part of a team of 5 from CMI. – Our goal is to measure the financial Literacy of individuals in this age bracket using responses of a survey that we have conducted.

Technical Skills

Languages	PYTHON, R, C, L ^A T _E X
Tools/Frameworks	Minitab, NumPy, Pandas, Matplotlib, Scikit-Learn, Git

Key Courses Taken

Postgraduate	Real Analysis, Data Structures, Visualisation with R, Probability and Statistics with R
Undergraduate	Linear algebra, Real analysis, Multivariable Calculus, Differential equations, Convex optimisation, Numerical analysis, Probability Theory, Mathematical Statistics, R, C
Online Courses	Data Analysis with R Programming, Algorithmic Toolbox

Awards and Achievements

2017	Jagadish Bose National Science Talent Search Junior Scholarship Awardee
2019	Jagadish Bose National Science Talent Search Senior Scholarship Awardee
2019	INSPIRE Scholarship for Higher Education, Dept. of Science and Technology, Government of India

Positions of Responsibility

CMI	Placement Representative
2022	Serving as a representative on the CMI Placement Committee.
St. Xavier's College, Kolkata, 2021	Director, Systems, Analytica 2021 Successfully served as the technical lead in the first online fest of the Department of Mathematics - Analytica 2021.

Extracurricular

2017 onwards	Music Have been playing the mandolin since 2017.
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