



ROUDRANIL DAS

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

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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
CGPA: 8.46

PROJECTS

Oct 2021 -
May 2022
[Link](#)

Bayesian Analysis of Efficacy of the ChAdOx1 nCoV-19 (AZD1222) Vaccine

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.

TECHNICAL SKILLS

Languages PYTHON, R, C, L^AT_EX
Tools/Frameworks Minitab, NumPy, Pandas, Matplotlib, Scikit-Learn, Git

KEY COURSES TAKEN

Postgraduate Mathematical Methods - Analysis, Data Structures, Visualisation with R
Undergraduate Linear algebra, Real analysis, Multivariable Calculus, Differential equations, Convex optimisation, Numerical analysis, Probability Theory, Mathematical Statistics (Descriptive & Inferential), Programming in R and 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, Govt. 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 helmed the department of systems in the first online fest of the Department of Mathematics - Analytica 2021.

EXTRACURRICULAR

2017 onwards **Music**
Have been playing the mandolin since 2017.