



# 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.

Aug 2022 -  
ongoing  
🔗 [Link](#)

### Financial Literacy among 18-35 Year Olds

Tools used: [Python](#), [NumPy](#), [Pandas](#), [Statsmodels](#), [Matplotlib](#)

- This is an ongoing project.
- 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<sup>A</sup>T<sub>E</sub>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, 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 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.