

Goirik Chakrabarty

STUDENT · PROGRAMMER · BS-MS (MAJOR IN MATHEMATICS)

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“Aut viam inveniam aut faciam tibi.”

Objective

A curious and passionate undergraduate student interested in studying Applied Mathematics and its applications in various fields. I have an inclination towards Probability and Statistics, and Data Science.

Interests

- Probability Theory
- Machine Learning (Theoretical)
- Game Theory
- Algorithms
- Mathematical Finance
- Economics
- Bioinformatics (the data analysis part as of now)

Education

Indian Institute of Science Education and Research(IISER)

Pune, Maharashtra

BS - MS DUAL DEGREE

Aug. 2018 - Present

- Academic Performace: Currently having a CGPA of 8.2/10. The grading system is relative.
- Subjects (till second year): Mathematics, Physics, Chemistry, Biology, Earth Sciences, Humanities, and Computer Programming

Faith Academy Senior Secondary School

New Delhi, Delhi

XII (CBSE)

Aug. 2016 - May 2018

- Overall percentage: 94.4%
- Science percentage (PCM and CS): 95.75%

Faith Academy Senior Secondary School

New Delhi, Delhi

X (CBSE)

Starting - May 2016

- CGPA: 10/10
- Subjects - Science, Mathematics, English, Social Studies, Hindi

Acievements

- 2019 **Attended National Science(VIJYOSHI) Camp**, organized by Kishore Vaigyanik Protsahan Yojana and DST, at Indian Institute of Science, Bangalore (incapacity of KVPY Scholar).
- 2019 **AIR - 6**, KVPY fellowship 2018, SB scholar. This is organised and given by Department of Science and Technology (DST).
- 2018 **Attended National Science(VIJYOSHI) Camp**, organized by Kishore Vaigyanik Protsahan Yojana and DST, at Indian Institute of Science, Bangalore (incapacity of Selected Student from IISER).
- 2018 **Recipient**, of INSPIRE SHE scholarship from Department of Science and Technology (DST).
- 2018 **Waitlist Rank 2**, after interviewing for B.Stat. course in Indian Statistical Institute, Kolkata

Skills

Programming	Python, R, MATLAB, C++, C, SQL
Typesetting	Latex, Markdown, HTML, CSS (with Sass)
Tools	Git, GitHub, VScode, MS-Excel, Linux and commandline
Soft Skills	Resourceful, Adaptable, Disciplined
Languages	English, Hindi, Bengali (fluent in all three)

Selected Courses

INSTITUTE COURSES

2018-19	Single and Multivariable Calculus
2018	Introduction to Proofs in Mathematics
2018	Programming with Python
2019	Mathematical Methods (vector calculus, ODE, Fourier analysis etc.)
2019	Linear Algebra
2020	Probability and Statistics
2020	Basic Structures in Mathematics
2020	Real Analysis
2020	Group Theory
2020	Random Processes and Queueing Theory
2020	Statistical Inference
2020	Topology
2020	Combinatorics
2020	Biostatistics
2020	Economics and Public Policy
2021	Data Science [Ongoing]
2021	Graph Theory [Ongoing]
2021	Mathematical Optimisation [Ongoing]
2021	Calculus on Manifolds [Ongoing]
2021	Vectorspace, Rings and Modules [Ongoing]
2021	Complex Analysis [Ongoing]

ONLINE COURSES

2019	Machine learning
2019	Probability and Statistical inference
2019-20	Biology Meets Programming: Bioinformatics
2020	Financial Engineering and Risk Management I
2020	Network Analysis in R
2020	Game Theory
2020	Welcome to Game Theory
2020	Importing and Managing Financial Data in Python
2020	Getting and Cleaning Data
2020	Statistical Inference
2020	R Programming
2020	The Data Scientist's Toolbox
2020	Data Visualisation using Seaborn
2020	Intermediate Machine Learning

Note: The Online courses are clickable. Some Coursera courses are audited and certificates will be available on purchase if required. For more details about the courses and other reading projects(self-taught as well as advised by professors [click here](#))

Extracurricular Activity

Corporate Relation Head

KARAVAAN 2020

Karavaan is IISER-Pune's Annual Science-Art-Cultural Festival.

Mar. 2020 - Present

Coordinator of Resource Team

DISHA

Disha is a social non-profit organisation completely run by students of IISER Pune to spread the light of Education and Scientific Temperament among the underprivileged section of the society.

Apr. 2019 - Aug. 2020

Finance and Sponsorship Coordinator

TEDxIISERPUNE

This was the first TEDx event organised by any IISER and we were the founding members

Aug. 2019 - Aug. 2020

Center Coordinator (Hyderabad)

MIMAMSA

Mimamsa is the Largest All India Undergraduate Quiz held Annually by IISER Pune

*Nov. 2019 - Feb. 2020***Finance Coordinator**

MATH CLUB

*Feb. 2020 - Aug. 2020***Volunteer**

IISER PUNE CUBING OPEN

Mar. 2019