

Daibik Barik

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Personal Info (Contact)

Location: Durgapur, West Bengal, India

Mobile: 07001760682

Email: daibikbarik@gmail.com

A Bit About Myself

Passionate mathematics student with a strong interest in analysis, graph theory, and problem-solving. Dedicated to continuous learning and research, with a knack for unraveling complex mathematical concepts and their foundational principles. Enthusiastic about leveraging logical thinking and programming skills to tackle challenging problems and explore innovative solutions.

Research Internships

Research Commons , Mathematics Research Intern	(Remote Working)
<ul style="list-style-type: none"> Preparing a Curriculum for the Research based studies in India in various levels on different topics of Mathematics. Worked with various other undergrads from IITs and BITS 	Jan 2025 - (Ongoing)
Learning ODE, PDE	

Education

B.Math. (Bachelor's)	Indian Statistical Institute, Bangalore Mathematics & Statistics with Computer Science, Physics	Bangalore, India Aug 2023 – May 2026
	<ul style="list-style-type: none"> Grade: 84.7% in first year Coursework: Number Theory, Probability, Statistics, Linear Algebra, Group Theory, Rings and Modules, Real Analysis, Multi-variable Analysis, Topology, ODE 	
AISSCE (High School)	DAV Model School, Durgapur Including Mathematics, in English	Durgapur, India Apr 2021 – Mar 2023
	<ul style="list-style-type: none"> Grade: 96% in Central Board of Secondary Education Subjects: Mathematics, Physics, CS, Phy. Ed., English 	

Achievements

Academic Achievements

Qualified for JEE Advanced — 96 percentile in JEE mains	2023
KVPY (now INSPIRE) Scholarship Fellow — Department of Science and Technology, Govt. of India	2021
Passed Indian Olympiad Qualifier for Mathematics or equivalent — Mathematics Teachers' Association of India	2020, 2019, 2018
Qualified for Atmadeep — Times of India	2018

Certifications

Causal Diagrams, CS50P — Harvard Online	2025, 2024
Mathematical Thinking — Stanford Online	2024
Python (Basic), Problem Solving (Intermediate) ↗ — HackerRank	2024

Research Publications

Journal Articles

Asymmetric vertex colorings of disjoint unions of graphs	(In Process)
The Polymath Jr. 2024 Asymmetric Graph Coloring team, including Daibik Barik arXiv:2412.00574 ↗	

Research Experience

Study Project National Institute of Technology, Durgapur	West Bengal Winter 2024
<ul style="list-style-type: none">On <i>Modelling on Fuzzy Graphs</i>, worked with Dr. Kartick Mohanta under the mentorship of Prof. Anita Pal.Worked on a paper <i>Dual Warehouse Inventory Model with trade credit</i> Learnt Fuzzy Graph Theory, ODE, inventory Control Management	
PolyMath Junior Williams College, US	(Online) Summer 2024
<ul style="list-style-type: none">On <i>Asymmetric Colourings of Graphs</i>, working with students worldwide under the mentorship of Prof. Puck Rombach, Daniel Johnston and Jeremy Quail.Gave a group presentation and Publishing a paper regarding the same. Learnt Graph Theory, Group Theory, SageMath	
UDGRP Winter Indian Statistical Institute, Bangalore	(Online) Winter 2024, 2023
<ul style="list-style-type: none">Taken by the 2nd Years (Sophomores) of the instituteVarious books are read and projects are presented on topics which are out of the core syllabus and serve as bridge learning. Taught Knot Theory (2024) Learnt Geometric Group Theory, Enumerative Combinatorics, Fourier Analysis, Measure Theory (2024) Combinatorial Game Theory, Commutative Algebra, LaTeX (2023)	

Miscellaneous Skills

Languages: Python, C, R

Platforms: LaTeX, SQL, HTML, Octave

Hobbies: Photography, Chess, Reading books, Listening to Music, Painting, Some outdoor sports