

GAUTAM SINGH

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Education

Indian Institute of Science, Education and Research, Kolkata	June 2027
<i>5 Year BS-MS Dual Degree Programme</i>	<i>Current CGPA: 8.6/10.00</i>
R. K. Mission Vidyapith, Deoghar, Jharkhand	June 2022
<i>AISSCE</i>	<i>90.2%</i>
R. K. Mission Vidyapith, Deoghar, Jharkhand	May 2020
<i>AISSE</i>	<i>96%</i>

Coursework

- Mathematical Methods
- Waves and Optics
- Computational Science
- Real Analysis I & II
- Basic Quantum Mechanics,
- Numerical Analysis
- Probability I
- Linear Algebra I & II
- Data Structures and Algorithms

Technical Skills

- Languages :** Python, R, C, C++, MATLAB
- Tools & Libraries :** \LaTeX , Git, Github, Linux, SciPy, NumPy, SymPy

Honours and Awards

Reliance Foundation Undergraduate Scholarship	June 2023 – present
<i>Batch of 2023</i>	
O.E.F Prize for Meritorious Students	Jan 2023
<i>For Exceptional Academic Performance in Class XII</i>	
O.E.F Prize for Meritorious Students	Jan 2021
<i>For Exceptional Academic Performance in Class X</i>	

Research Project

Experiments on the Spanning Ratios of Convex Polygons	May 2024 – July 2024
<i>Project Supervisor: Prof. Pinaki Mitra, Indian Institute of Technology, Guwahati</i>	
<ul style="list-style-type: none">Read and implemented various research papers related to Geometric Spanner Networks.Wrote a codebase in C++ and Make to generate random polygons and calculate their spanning ratios.Implemented graph algorithms like Dijkstra's algorithm and Bellman Ford to solve the single-source and the multiple-source least path problems.Implemented a Dynamic Programming algorithm to solve the minimum weight triangulation problem.	

Experience

SlashDot: Programming Club	Sept. 2023 – Present
<i>Club Leader</i>	
<ul style="list-style-type: none">Building a community of 450+ science and mathematics majors in using computational techniques in their everyday work.Orchestrating workshops, designed problems, coding sessions, and events to enhance skills and encourage scientific learning.Conducted programming contests and made problems on the Polygon platform.	