Soham Chatterjee

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🌐 sohamalephnull.blogspot.com

Education

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Chennai Mathematical Institute	**Chennai, Tamilnadu, India**
B. Sc - Mathematics and Computer Science	*2021 – Ongoing*

University of Calcutta	**Kolkata, West Bengal, India**
B. Tech 1st Year - Electronics and Communication Engineering	*2020 – 2021*

Baranagar Narendranath Vidyamandir	**Kolkata, West Bengal, India**
Higher Secondary (12th Standard)	*2018 – 2020*

Baranagar Ramakrishna Mission Ashrama High School	**Kolkata, West Bengal, India**
Secondary (10th Standard)	*2008 – 2018*

Academic Achievements

CMI Entrance	**Chennai Mathematical Institute**
Entrance exam of Chennai Mathematical Institute	*2021*
NEST	**NISER**
Entrance exam of National Institute of Science Education and Research (NISER)	*2021*
WBJEE - Rank 1893	**WBJEEB**
West Bengal Joint Entrance Exam	*2020*
12th Statistics Olympiad - Rank 108	**AIMSCS**
C R Rao Advanced Institute of Mathematics, Statistics and Computer Science (AIMSCS)	*2020*

Reading Projects

- **Ramanujan's work on theta functions and q-series and their connections with number theory.**
  Under Professor Rupam Barman, IIT Guahati during the summer break in May – Jul, 2022.
- **Algebraic Circuits: Learning the inherent structure.**
  Under Professor Nitin Saxena, IIT Kanpur during the winter break in Dec – Jan, 2022.

Topics I Learned

- **Math Topics:-**
  - **Analysis:**
    · Real Analysis
    · Euclidean Space
    · Metric Space
  - Complex Analysis
  - **Algebra:**
    · Linear Algebra
    · Group Theory
    · Ring Theory
    · Field Theory
  - General Topology
  - Algebraic Topology (Introductory)
  - Probability Theory
  - Integral Calculus
  - Differential Equations

- **Computer Science Topics:-**
  - **Theoretical Computer Science Topics:**
    · Design and Analysis of Algorithms
    · Theory of Computation
    · Complexity Theory - Partha Mukhopadhyay
    · Arithmetic Circuits - Nitin Saxena
    · Computational Algebra and Number Theory - Nitin Saxena

  - **Other CS Topics:**
    · Discrete Mathematics - C Ramya & Partha Mukhopadhyay
    · Introduction to Functional Programming (Haskell)
    · Advanced Programming with Python

- · Programming Language Concepts (Java, Concurrent Programming, Lambda Calculus)

- o **Other Topics:-**
  - – Classical Mechanics
  - – English

Computer Skills

- o **Programming Languages:** Python (Basic), Haskell (Basic), Java (Basic), Unix/Linux Shell Scripting
- o **Technical Skills:** LaTeX, Git, Basic works in terminal, VIM

Hobbies

- o Watch Anime, Listen Music (J-pop, Western), Theming linux desktop