Soham Chatterjee

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Education

- **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 (12^{th} Standard) — *2018 – 2020*
- **Baranagar Ramakrishna Mission Ashrama High School** — **Kolkata, West Bengal, India**
  Secondary (10^{th} 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 - Geevarghese Philip and Samir Dutta
    - 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 - Samir Dutta
    - Programming Language Concepts (Java, Concurrent Programming, Lambda Calculus)

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

Computer Skills

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

Hobbies

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