Souptik Halder

✉ haldersouptik@gmail.com   📱 (+91) 9123372668   in SouptikH   📍 Kolkata,India

▬▬ RESEARCH EXPERIENCE

Indian Statistical Institute   **Kolkata**
Reserch Intern   *May,2023 - August,2023*
An Automata based approach for Uniform Sampling over String Constraints

under guidance of **Prof. Sourav Chakraborty**

National University of Singapore   **Singapore**
Reserch Intern   *May,2022 - July,2022*
Approximate Model Counting and Sampling algorithms & their application
over various domains of Quantitive Verification

under guidance of **Prof. Kuldeep S. Meel**

▬▬ EDUCATION

Indian Statistical Institute   **Kolkata, India**
M. Tech in Computer Science   *July,2024 - Present*
Postgraduate

Jadavpur University   **Kolkata, India**
B.E in Computer Science and Engineering   *September,2020 - July,2024*
Undergraduate
CGPA: 8.05/10.00

▬▬ RESEARCH INTERESTS

Algorithms
Formal Verification
Model Counting and Sampling
Theoretical Computer Science

▬▬ TECHNICAL SKILLS

Programming Languages   C, C++, Python
Tools & Softwares   Z3, NuSMV, Git, Latex

▬▬ COURSE WORK

Mathematics:
Probability & Stochastic Processes, Statistical Methods, Linear Algebra, Discrete Mathematics.
Computer Science:
Specification and Verification of Programs*****, Randomized and Approximation Algorithms*****,
Graph Algorithms*****, Design and Analysis of Algorithms, Data and File Structure, Theory of Computation .

* *To be completed by April 2025*

▬▬ AWARDS AND ACHIEVEMENTS

o First Runner-up in SOF International Mathematics Olympiad (School Level) in both 2014, 2013.

o Ranked among the top 0.8% nationally in Graduate Aptitude Test in Engineering (GATE 2024).