MOHAMMAD SHAAN

B.Stat (First Year), ISI Kolkata

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Career Objective

Motivated B.Stat student at ISI Kolkata with a strong foundation in mathematics, statistics, and programming. Passionate about quantitative research and data analysis. Eager to contribute to impactful projects and gain real-world experience through internships, academic collaborations, or hands-on opportunities. Recently achieved a top 60 global rank in the **Optiver Trade-a-thon** Challenge, further fueling an interest in problem-solving, quantitative modeling, and real-world financial applications.

Education

– **B.Stat**, Indian Statistical Institute (ISI Kolkata) 2024 – Present
Semester 1 Score: **75%**

– **12th Grade**, Bharatiya Vidya Bhawan, Kolkata 2024
CBSE Board Examination Score: **95.2%**
Subjects: Mathematics, Physics, Chemistry, Biology

– **10th Grade**, Bishop Morrow School, Krishnagar, West Bengal 2022
ICSE Board Examination Score: **97%**

Projects

– **Exploratory Analysis of NEET 2024 Centre-wise Scores**
Conducted as a class assignment to explore real-world applications of statistics. Analyzed small data sets for potential anomalies under the guidance of **Dr. Debasis Sengupta** as a part of **Statistical Methods-I** coursework

– **Exploring the Joint Distribution of X and Y from Scrambled Uniform(0,1)**

Part of **Probability Theory-II** coursework under **Dr. Arnab Chakraborty**.

– **Analyzing Pixel Variance in Multiple Image Captures**

Part of **Probability Theory-II** coursework under **Dr. Arnab Chakraborty**.

– **Independent Bridge Reliability and Crossing Probability**

Part of **Probability Theory-II** coursework under **Dr. Arnab Chakraborty**.

– **Finding the kth Order Statistic Using Randomized Partition**

Part of **Programming and Data Structures** coursework under **Prof. Goutam Paul**.

Certifications

– **Google Cybersecurity Professional Certificate** (In Progress, Expected Completion: May 2025)

– **CS50: Introduction to Programming with Python** (In Progress, Expected Completion: May 2025)

Awards & Honors

– **JBNSTS STST and JTST Scholar Awardee**

– **ISI B.Stat Entrance 2024:** AIR 32

– **JEE Advanced 2024:** CRL Rank 4256

– **JEE Mains 2024:** CRL Rank 6762

– **WBJEE 2024:** CRL Rank 144

– **Optiver Trade-a-thon 2025:** Global Rank 59

– **IOQM Qualifier 2024**

Skills

– **Programming Languages:** Python, R

– **Statistical Tools:** R

– **Mathematical/Statistical Techniques:** Probability Theory, Linear Algebra, Data Analysis

– **Soft Skills:** Communication, Problem-Solving, Teamwork

– **Tools:** LaTeX, GitHub, MS Office

Interests

– Deep interest in **Statistics**, **Probability Theory**, and **Linear Algebra**

– Keen to explore **Machine Learning**, **Cybersecurity**, and **Mathematical Cryptography**

– Passionate about understanding mathematical foundations and applying them in data-driven domains