Shyam Banerjee B.Stat.

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About Me

I am a second-year undergraduate at the Indian Statistical Institute, Kolkata, with a strong foundation in statistical theory and a growing portfolio of research-driven projects. My interests lie at the intersection of probability, machine learning, and real-world applications—ranging from astrophysical simulations to financial analytics. With hands-on experience in Python and a background in Olympiad-level mathematics, I enjoy tackling complex problems through data and computation. I'm actively seeking research and internship opportunities to further deepen my expertise in quantitative science and applied statistics.

Education

Indian Statistical Institute (ISI)   Kolkata, India
Bachelors in Statistics (B.Stat)   2024 - Present
- Aggregate 85% (First Year)
- Incoming Sophomore

Gitanjali Public School   Sainthia, WB, India
12th Grade (CBSE)   2024
- Overall 95%

Gitanjali Public School   Sainthia, WB, India
10th Grade (CBSE)   2022
- Overall 97.4 %

Course Topics

- Statistical Methods, Probability Theory
- Real Analysis, Linear Algebra
- Data Structures and Algorithm, Numerical Analysis

Projects

Simulating posterior inference for Periodic signals
Dr. Thomas Loredo (Penn State Summer School for Astrostatistics)   2025.07

Simulating noisy Stellar Light curves using Sinusoidal and Gaussian processes
Dr. Suzanne Aigrain (Penn State Summer School for Astrostatistics)   2025.06

Analysis of Variance in Pixel Values in Multiple Captures
Dr. Arnab Chakraborty (ISI Kolkata)   2025.05

An Exploratory analysis of NSSO HCES (for per-capita contrasts)
Dr. Debasis Sengupta (ISI Kolkata)   2024.10

Academic Distinctions and Enrichment programs

- **Summer School for Astrostatistics** (Penn State University)
- **Madhava Nurture Camp** (Bhasarachariya Pratisthana, Pune)
- **Mathematics Olympiad - National level:** Qualified Regional Mathematics Olympiad (RMO) in 2021 and 2022; participated in Indian National Mathematics Olympiad (INMO) twice.
- **National Science Camp Attendee - VVM:** Selected for National-level Science Camp in 2020 after qualifying state-level prelims.

SKILLS

- **Languages**: English, Hindi, Bengali, German.
- **Programming**: `Python, C++, R`.

INTERESTS

- **Music**: Pop, EDM
- **Reading**: Fantasy, Slice of Life, Sci-Fi