# 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

**An Exploratory analysis of Random Forests w.r.t Law of Large Numbers**
*Dr. Peter Freeman (Penn State Summer School for Astrostatistics)* — 2025.06

**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 NEET 2024 Centre-wise Scores**
*Dr. Debasis Sengupta (ISI Kolkata)* — 2024.07

## Certifications

- **Summer School for Astrostatistics** (Penn State University)
- **Madhava Nurture Camp** (Bhasarachariya Pratisthana, Pune)

## Awards and Honors

- **Mathematics Olympiad National-level achiever:** Cleared RMO twice in 2021 and 2022.
- **National-level Science Camp attendee:** Attended national-level Science Camp for VVM in 2020, after clearing the state-prelims.

## Skills

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

## Interests

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