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Sayan Das

Education

2023–2027 **Bachelor of Science (Hon.s) in Mathematics**, *Jadavpur University*, Kolkata.
Minors in Statistics and Computer Science.
Relevant courses: Data Structures & Algorithms in Python, Programming in C & C++, Database Management Systems, Statistics 1-3, Linear Algebra, Numerical Analysis, PDEs.

Experience

July–October 2024 **Data Science Intern**, *Indian Statistical Institute*, Kolkata
Trained a machine learning model for stock trading, mentored by Dr. Snehalika Lall.
Evaluated performance on historical S&P500 data using yfinace API.
Performance measured using Sharpe ratio, achieved $\sim$ 40% adjusted returns.

September 2024–Present **Content Team Assistant Convenor**, *Jadavpur Math Society*, Kolkata
De facto leading by conducting meetings, setting weekly problems and conducting seminars.
Set the question paper for and organised Mathemagician at JU's tech-fest Srijan 2025.
Contributed to and published the Jadavpur Math Society magazine.

July 2025 **Summer Research Intern**, *Indian Statistical Institute*, Kolkata
Studied Selberg's proof of the Prime Number Theorem, mentored by Prof. Satadal Ganguly.

Projects

July 2023 **Gestalt**, (C++, SFML)
A 2D game made for the GMTK 2023 game jam in just 48 hours.
Created 2D animations with sprites, and implemented 2D game physics.

September–November 2024 **ML Model for Optimal Stock Trading**, (Python, Scikit-Learn)
Identifies when to enter (buy) and exit (sell) trades for optimal profit.
Model trained on historical stock market (S&P 500) data.
Performance measured using Sharpe ratio with $\sim$ 40% adjusted returns.

March–May 2025 **Numerical Analysis**, (MATLAB)
Implementations of common numerical algorithms in MATLAB done as part of coursework.

Skills

Languages C++, Python, Java, SQL, MATLAB, R
Libraries SFML, OpenGL, Matplotlib, NumPy, TensorFlow, PyTorch, Pandas, Scikit
Misc. Unity, Unreal, VSCode, Vim, Git, Bash, Docker

Achievements

- Selected for the 2024 Winter School on CS Theory at IISc Bangalore. (one of 3 from JU)