Sayan Das

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EDUCATION

Jadavpur University

Kolkata, INDIA

Bachelor of Science in Mathematics; Minors in Statistics and Computer Science

Aug. 2023 - Present

Relevant Coursework

Computer Science 1 (Programming Languages)
Stats 1 (Probability and Descriptive Stats)
Real Analysis
Linear Algebra

Discrete Mathematics Stats 2 (Distributions and χ^2 test) Numerical Analysis Abstract Algebra

EXPERIENCE

Data Science Intern

July 2024 - Oct 2024

IDEAS Technology Innovation Hub, Indian Statistical Institute

Kolkata, INDIA

- Developed a machine learning algorithm for identifying optimal trades
- Learnt data analysis, data visualization, Python for data science and machine learning
- Exposed to research methodology, survey and data interpretation

VOLUNTEERING

Content Team Coordinator, Jadavpur University Math Society

Sep. 2024 - Present

ACHIEVEMENTS

Jadavpur University BSc Math Entrance Exam

June 2023

• Ranked 49 out of approximately 2600 candidates

Workshops Attended

Attended the 2024 CS Theory Winter School, IISc Bangalore

7 – 10 Dec. 2024

• One of only 3 students selected to attend from home institute

Projects

Machine Learning Model for Optimal Stock Trading | Python, Pandas, NumPy, Scikit | July 2024 - Oct 2024

- An unsupervised machine learning strategy that identifies when to enter (buy) and exit (sell) trades for optimal profit
- Model trained on historical stock market (S&P 500) data using Yahoo finance API
- K-Means clustering is used to target particular RSI values
- Performs better over longer timeframes such as 20 instead of 10 years
- Portfolio returns outperform the SDPR S&P 500 (SPY) ETF eventually
- Creates around 40% adjusted returns

Gestalt | SFML, C++, $Visual\ Studio$

July 2023 – July 2023

- A 2D game made for the GMTK 2023 game jam in just 48 hours
- Used Simple and Fast Multimedia Library (SFML) and C++ to program the game
- Implemented 2D game physics

Personal Website | JavaScript, HTML/CSS, VS Code, Git

Sep. 2023 – Present

- Persona 5 Royal themed portfolio website
- Site hosted via GitHub Pages

TECHNICAL SKILLS

Languages: C, C++, Python, SQL, R, MATLAB, C#, Java, JavaScript, HTML/CSS

Developer Tools: Make, CMake, Vim, Neovim, Git, PowerBI, VS Code, Visual Studio, IntelliJ, Eclipse, Unity, Unreal APIs, Frameworks, & Libraries: Pandas, NumPy, Matplotlib, PyTorch, Tensorflow, Scikit, Boost, SFML, OpenGL