

Md Patwary

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EDUCATION

Stony Brook University

Bachelor of Science

Major in Applied Mathematics & Statistics, and Economics

Relevant Coursework: Multivariable Calculus, Differential Equation, Linear Algebra, Survey of Probability and Statistics, Data Analysis, Probability Theory, Finite Mathematical Structures, Financial Mathematics, Microeconomic Theory

Stony Brook, NY

Expected May 2025

SKILLS & CERTIFICATES

Technical Skills: Statistics, Data Analysis, Data Visualization, Presentation, Financial Mathematics, Problem Solving

Programming Languages & Tools: Java, Python, R, Excel, Spreadsheets, Microsoft Office, Google Suite

Certificates: Google Data Analytics by Coursera ([credential](#))

EXPERIENCE

Vertically Integrated Projects - Stony Brook University

Research Assistant

Stony Brook, NY

Jan 2024 – May 2024

- Researched mathematical concepts from Linear Algebra and Graph Theory that are utilized in network designing.
- Worked on the development of algorithms using data structures and algorithmic concepts.
- Performed several unit tests to optimize algorithms to increase performance and ensure reliability.

Outreach Program Services of America

Campus Ambassador

New York, NY

Jul 2023 – Nov 2023

- Developed and executed strategic outreach initiatives to expand the audience population.
- Leveraged exceptional communication skills to establish additional outreach initiatives to increase program exposure.
- Collaborated with organizations on campus such as the Student Accessibility Support Center and Student Support Team to increase accessibility to diverse groups of students.

PROJECTS (Data Analysis)

Analysis of Categorical Data | R, Rstudio

Nov 2023

- Conducted multiple regression analysis on a dataset consisting of a dependent variable and 24 independent variables of 3 different categories.
- Implemented stepwise regression to create multiple models for the dataset using subsets of independent variables, and derived an accurate final model for the entire dataset.
- Applied hypothesis testing methodologies to assess the significance of the model, accounting for inflation of significance levels to get a more accurate result.

Linear Regression Analysis | R, Rstudio

Oct 2023

- Sorted and merged datasets with unique IDs into a single dataset. Imputed missing values to retrieve a clean dataset.
- Transformed the dependent variables to create a linear relationship in data. Used the transformed dataset to bin data and apply a lack of fit test.
- Created a regression model and an ANOVA table, and found the 95% and 99% CI of the slope of the regression line.

EXTRACURRICULARS

CodePath - Web Development Fellow

Feb 2024 - May 2024

- Participated in team-based projects focused on dynamic web development, and implementing responsive user interface.
- Enhanced proficiency in HTML, CSS, and JavaScript by creating our individual advocacy websites.

ADDITIONALS

Additional Experience: 2+ years of retail and customer support experience

Clubs/Involvements: SBU Islamic Society, SBU Commuter Student Association

Language Fluency: Native in English and Bengali