Marium Tapal

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EDUCATION

Smith College   Northampton, MA
B.A. in Mathematics & Statistical and Data Sciences   May 2022
- GPA: 3.96/4.00
- Awards: Dean's List 2018-2019, 2019-2020
- Selected Coursework: Advanced Programming in R, Bayesian Data Analysis, Multiple Regression, Intro to Data Science, Statistics in Education, Intro to Computer Science, Linear Algebra, Intro to Analysis, Complex Analysis, Probability
- Technical Skills: Advanced: R, Git/GitHub; Experience with: Python, SQL, LaTeX, HTML/CSS

Nixor College   Karachi, Pakistan
Advanced Levels, 4A*s & 1A   August 2018

PROFESSIONAL EXPERIENCE & PROJECTS

Smith College - Program in Statistical and Data Sciences   Northampton, MA
Undergraduate Researcher, Benjamin S. Baumer's Lab   Jan'20 – Present
- Develop R package `fec16` with 12 datasets and 4 functions containing relational data from the 2016 U.S. federal elections
- Publish fec16 on the Comprehensive R Archive Network (CRAN) with over 4500 downloads
- Present at the Women in Statistical and Data Sciences and Electronic Undergraduate Statistics Research conferences
- Author complementary `fec12` and `fec20` packages for the 2012 and 2020 elections respectively

FinePrint Data   Remote
Data Science Intern   Jan'21 – Feb'21
FinePrint Data is a start-up that investigates how politicians invest their money.
- Studied political investment data and explored factors that influence trading decisions
- Replicated academic studies by building over 150 statistical models and summarizing findings in R
- Identified 5 new factors and conducted exploratory data analysis

Smith College - Program in Statistical and Data Sciences   Remote
Data Science Research Intern, Prof. Albert Y. Kim   Jun'20 – Jul'20
- Updated the `fivethirtyeight` R package to host large datasets; overhauled the `ModernDive` textbook and teaching tools
- Boosted fivethirtyeight downloads by over 40% in the first month of release by closing 4 major enhancements and issues
- Assisted with major developments in v2 of the ModernDive textbook, package, and website by writing over 2500 lines of code and contributing to 5 issues

Projects
- Automated Bayesian Simple Normal Regression: generate a fully customizable `R Markdown report` with a single line of code
- Marium Bakes: a personal baking recipe `website` built using R Markdown, HTML, and CSS

LEADERSHIP EXPERIENCE

Smithies in Statistical and Data Sciences   Northampton, MA
Vice President & Data Mentor   Sep'19 – Present
- Lead over 100 organization members, create community, and arrange data science themed events
- Host Rmarkdown tips and tricks workshop, data visualization tea, and Data Science Day for 75+ attendees

Smith College Residence Life   Northampton, MA
House Community Advisor   Aug'19 – Present
- Cultivate community in 3 different houses with 70+ residents each
- Act as the initial contact person for all residents, conduct social justice mediations, facilitate internal governance, enforce college policies, and organize educational programs

EKTA (Smith's South Asian Student Organization)   Northampton, MA
Publicity Chair, Social Chair   Sep'18 – Present
- Organize weekly events relating to South Asian culture, cuisine, and practices
- Conceptualize marketing and coordinate catering for events gathering 100+ people

ADDITIONAL INFORMATION

Languages: English (Fluent), German (Basic), Urdu (Native), Gujarati (Native)
Trainings & Certifications: CITI – IRB Researchers, Social Justice Mediation, Wall Street Prep Bootcamp