

Swaha Bhattacharya

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EDUCATION

Bachelor of Arts: Mathematics, Statistical and Data Sciences

Northampton, MA | May 2023

SMITH COLLEGE

GPA: Major GPA: 4.0, CGPA: 3.98

Awards: Dean's List 2019-2022

Coursework: Adv Prog in R, Probability, Mathematical Statistics, Communicating with Data, Multiple Regression, Linear Algebra, Machine Learning, Real Analysis, Research Seminar in Political Networks

SKILLS

Technical Skills: R Statistical Language, R Studio, Python, SQL, Tableau, Power BI

Technology: Git, GitHub, Microsoft Office

Languages: English, Hindi, Bengali, Marathi, French

Other Interests: Indian (Hindustani) Classical Singing, Karate

WORK EXPERIENCE

DATA ASSETS INTERN | MUNICH RE AMERICA SERVICES

Princeton, NJ | May 2022 – Aug 2022

- Collaborated with underwriters and actuaries to create reports on existing reinsurance submission data and made recommendations for further structuring and use of client submission data
- Leveraged R, Power BI, and Excel to analyze and structure data observations
- Optimized R and SQL to clean data on commercial trucks to create predictive regression models for truck accidents

DATA ANALYSIS INTERN | RELIANCE INDUSTRIES

Mumbai, India | May 2021 – August 2021

- Created compelling interactive data visualizations on Tableau, to portray and analyze existing data on trends in Reliance Petrochemical sales
- Analyzed the dashboards to find new visualizations or modifications to the existing ones to improve their efficiency

QUALITATIVE RESEARCH VOLUNTEER | INDIAN EMBASSY IN THE U.S.

Remote | Dec 2020 – March 2021

- Worked with volunteers from the embassy of India to research the best micro-innovations established in local schools across Indian states for development of teaching methods for under-privileged students
- Collected and cleaned data through interviews and other available data for qualitative and quantitative analysis of the best micro-innovations to be established in local schools in India
- Created a detailed report on the findings and a plan of action for future purposes

DATA ANALYSIS INTERN | EDUGION

Charlestown, MA | Jun 2020 - Aug 2020

- Collected and analyzed data for planning the growth, efficiency, and financial gains of the company

TEACHING ASSISTANT | STATISTICAL AND DATA SCIENCES DEPARTMENT, SMITH COLLEGE

Northampton, MA | 2020 - 2023

- Conducted 4 open hours per week as a general statistics and data science tutor
- Supported 100+ students through data science labs and projects in Introductory and Advanced Data Science and Statistics courses

PROJECTS

R IPL PACKAGE | CONTRIBUTOR

The goal of ipl is to provide data and functions related to the Indian Premier League (IPL) matches and standard cricket statistics. This package allows users to avail of IPL data and conduct analysis of cricketers and IPL teams using functions of this package. These functions will also aid in conducting data analysis for those who are interested in analysing IPL trends.

SDS CAPSTONE PROJECT | CONTRIBUTOR

Worked with team mates in collaboration with Blue Cross Blue Shield of Minnesota (BCBSMN) to train algorithms to predict the probability of patients having certain hierarchical condition categories (HCC) using multiple machine learning methods like LASSO regression. Used statistical metrics like balanced accuracy to select most effective model for each HCC.

LEADERSHIP EXPERIENCE

EKTA SOUTH-ASIAN STUDENT ORGANIZATION | CHAIR

- Collaborated with Ekta board members, other South-Asian organizations in the Five College Consortium and liaised with the South-Asian department at Smith to organize educational and cultural events