Navpreet Kaur

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EDUCATION

The City College of New York — Expected Graduation: 05/26
Master of Science in Applied Mathematics — GPA: *In Progress*
Courses: Topics in Applied Mathematics, Topics in Pure Mathematics

Fordham University — Graduated: 05/22
Bachelor of Arts in Mathematics/Economics, Minor in Computer Science — GPA: 3.60
Courses: Discrete Mathematics, Statistics & Probability, Linear Algebra, Multivariable Calculus III & IV, Numerical Analysis, Abstract Algebra, Real Analysis, Data Structures, Data Mining, Database Systems, Programming for Math & Science

SKILLS

Languages: Python, C++, R, MATLAB, SQL, Shell
Softwares: Power BI, Alteryx, Tableau, GitHub, LaTeX
Other: HTML, CSS, Linux, Git, Amazon S3, Amazon Redshift, Vim

RELEVANT EXPERIENCE

AH Infotech LLC/Sony Music Entertainment, *Data Analytics Consultant,* New York, NY — **Aug 2022 - Present**
- Cut data processing and loading time for the financial systems dashboard by 98% by building a database based dashboard and improving the accuracy of the load process and data displayed.
- Implement changes to ETL scripts to improve data quality and accuracy of data points received from distributing partners (Spotify, Apple Music, TikTok, etc.)
- Test and analyze newly received data reports to determine how they can be implemented in the consumer anayltics database.

Microsoft Research Data Science Summer School, *Student Researcher,* New York, NY — **May 2022 - Jun 2022**
- Replicated results and models from published papers using different datasets to compare findings and extended on the results to answer new questions using R (tidyverse, ggplot) and statistical methods.
- Collaborated with other students on GitHub to solve problems using R, Linux, and statistics.

Fordham University, *Research Assistant,* New York, NY — **Jun 2021 - May 2022**
- Reviewed and tested the produced optimization frameworks on case studies and real-word data using MATLAB to generate visual plots and confirming the desired results.
- Researched methods to prove the federated learning algorithm used to produce the optimal transport framework in a large population network.

PROJECTS

Fordham University Prep for Industrial Careers, New York, NY — **Jan 2022 - May 2022**
- Worked with liaisons from Red Ventures to create a MVP of an article summarizer and recommender on a dataset of 1176 articles provided by the team.
- Created a recommender that used a soft cosine similarity matrix to determine the similarity between each of the articles from the dataset.

Google Research's Tristate ExploreCSR 2021, New York, NY — **Feb 2021 - Apr 2021**
- Won second place for creating and presenting a poster on the topic of fair resource allocation using optimal transport.
- Implemented the fair optimal transport framework for various case studies and generated graphs modeling the results in MATLAB.

PUBLICATION

N.Kaur, J.Hughes, & J. Chen. VaxEquity: A Data-Driven Risk Assessment and Optimization Framework for Equitable Vaccine Distribution. *2022 56th Annual Conference on Information Sciences and Systems (CISS).*

AWARDS & HONORS

- Pi Mu Epsilon Honor Society 2022
- Second Place at Google Research's Tristate ExploreCSR 2021

LANGUAGES

- Punjabi *(Native)*
- Hindi *(Full Professional Proficiency)*
- Spanish *(Limited Working Proficiency)*