

Eddie Freedman

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Education

Cornell University

Master of Engineering (M.Eng.)

Operations Research and Information Engineering, Data Analytics concentration

- Coursework: Applied Data & Decision Making, Machine Learning, Big Data Technologies, Time Series Analysis, Statistics, Computational Optimization, Reinforcement Learning in Finance, Financial Engineering

Ithaca, NY

Jan. 2022 – Dec. 2022

Cornell University

Bachelor of Science (B.S.)

Operations Research and Engineering, minor in Computer Science

Ithaca, NY

Aug. 2018 – May 2022

Experience

PayPal

New York, NY

Decision Science Intern

Jun. 2022 – Aug. 2022

- Analyzed the impact of U.S. PayPal merchants adding Buy Now, Pay Later (BNPL) competitors as payment options to their checkout pages
- Implemented time series analysis methods in R to estimate changes in PayPal purchase volume after PayPal merchants add a BNPL competitor using over 100 weeks of transaction data per merchant
- Used machine learning techniques to generate similarity matches for over 4,000 merchants for use in causal impact modeling
- Created an SQL methodology to extract and organize relevant time series data from over 40 million daily transactions, expediting future analysis of non-U.S. merchants by several weeks

Johnson & Johnson

Ithaca, NY

Data Scientist (M.Eng. Project)

Jan. 2022 – May 2022

- Modeled Pulmonary Hypertension patient referrals to medical specialists for diagnosis and treatment with Uptravi and Opsumit prescriptions, which generate over \$2.5 billion in annual revenue
- Developed a data pipeline using AWS, Dataiku, and Spark to process over 100 million medical insurance claims per year to map the patient referral network
- Utilized network analytics to identify general healthcare providers that referred Pulmonary Hypertension patients to expert cardiologists that accurately diagnosed the disease, shortening the diagnosis time by up to six months
- Created an interactive Tableau dashboard to visualize over 250,000 Pulmonary Hypertension patient referrals

Peraton Labs

New York, NY

Data Science Intern

Jun. 2021 – Aug. 2021

- Built an interactive virtual dashboard for over 700 U.S. military bases using Plotly and Dash Python libraries to visualize cybersecurity anomalies in military Internet and communications
- Created a secondary developer-facing dashboard to display real-time health metrics and analyze the performance of the machine learning model's course-of-action determination
- Directly collaborated with the project director and lead developer to design the user interface of the dashboards based on client priorities
- Implemented the dashboards in Docker containers for use in remote machines
- Developed a methodology to efficiently query more than 100,000 records of Prefect data from Elastic to use in the dashboards

Dataminr

New York, NY

Research & Software Engineering Intern

Jun. 2020 – Aug. 2020

- Designed an approach to identify supply chain disruptions in real-time from over 5,000 daily Dataminr alerts using Looker
- Created a machine learning model to predict abnormal spikes in Twitter activity following supply chain disruptions using Pandas, Scikit-learn, TF-IDF and Word2Vec
- Investigated ways to detect early warning signs of future corporate action resulting from supply chain disruptions using natural language processing techniques

Certifications: Spark, Power BI, C++

Skills: Python, SQL, R, Tableau, Machine Learning, Jupyter Notebooks, Java, Microsoft Excel

Interests: Water polo, Skiing, Cooking