Edward Freedman

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Education

CORNELL UNIVERSITY

Ithaca, NY

Master of Engineering (M.Eng.) in Operations Research and Information Engineering, Data Analytics concentration

CORNELL UNIVERSITY

Decision Science Intern

Ithaca, NY

Bachelor of Science (B.S.) in Operations Research and Engineering, minor in Computer Science

Experience

PAYPAL

New York, NY

Jun. 2022 – Aug. 2022

- Analyzed the impact of a U.S. PayPal merchants adding a Buy Now, Pay Later (BNPL) competitor to their website
- Implemented time series analysis methods in R to predict drops in PayPal purchase volume after a BNPL competitor addition using over 100 weeks of transaction data per merchant
- Used machine learning techniques to find similarity matches for over 4,000 merchants to use in causal impact modeling
- Created structured methodology using SQL to extract and organize relevant data from over 40 million daily transactions to expedite future analysis of non-US merchants by several weeks
- Provide PayPal's marketing and sales teams with budgeting strategy for establishing exclusive PayPal merchant partnerships to prevent future revenue losses due to BNPL competitors

JOHNSON & JOHNSON

Ithaca, NY

Jan. 2022 – May 2022

- Data Scientist (M.Eng. Project)
 - Modeled patient referral patterns from general physicians to medical specialists for Uptravi and Opsumit prescriptions which generate over \$2.5 billion in annual revenue
 - Utilized network analytics to identify influential healthcare providers that help treat Pulmonary Arterial Hypertension patients to shorten time until patient diagnosis by up to six months
 - Developed data pipeline using over 250,000 insurance claims for future classification of health care providers using Dataiku and PySpark
 - Created an interactive Tableau dashboard to easily visualize the referral network

PERATON LABS

New York, NY

Data Science Intern

Jun. 2021 – Aug. 2021

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

DATAMINR

New York, NY

Research & Software Engineering Intern in AI

Jun. 2020 – Aug. 2020

- Designed approach to identify supply chain disruptions in real-time from over 5,000 daily Dataminr alerts using Looker
- Created machine learning model to predict abnormal spikes in Twitter activity following supply chain disruptions using Scikit-learn, TF-IDF and Word2Vec
- Investigated ways to detect early warning signs of future corporate action resulting from supply chain disruptions using NLP techniques
- Presented findings to six company executives to explore viability of new supply chain-related corporate risk product

Skills: Python, SQL, R, Excel, VBA, Tableau, Java, Looker, Elasticsearch, APIs, Git **Interests:** Water polo, food, skiing, traveling, guitar, architecture