John Lee

✉ jlee.sbu@gmail.com

📱 347-631-0084

📍 New York, NY 10010

○ github.com/syntheticjohn

SKILLS

Python   SQL   R

Machine Learning

NLP   postgreSQL

mongoDB   Tableau

AWS   GCP

Command line   Git

Dask   Dash

EDUCATION

MS, Applied Math & Statistics, 3.5 GPA
Stony Brook University

08/2012 – 12/2014

BS, Applied Math & Statistics, 3.7 GPA
Stony Brook University

08/2008 – 12/2013

ORGANIZATIONS

Lime Connect

Sigma Alpha Mu

WORK EXPERIENCE

Data Scientist
Metis

03/2020 – 06/2020   *New York, NY*

Completed a selective, project-driven 12-week Data Science bootcamp that focuses on machine learning and covers the entire spectrum from big data architecture to front-end web apps

Projects

- Topic modeling on tweets to Apple Support: Analyzed user tweets to Apple Support with NLP using NLTK for text cleaning, NMF for topic modeling and mongoDB for data storage. Predicted the topic based on a user's initial tweet in order to automatically route tweets to product-specific teams within Apple customer support team using CorEx with product-focused anchors.

- Predicting product re-orders on Instacart: Predicted which products an Instacart user will reorder in the next order given a history of orders by utilizing classification algorithms and engineering features to optimize F1 score (logistic regression, random forest and gradient boosted trees). Used postgreSQL for data storage and visualized results with Tableau that illustrated consumer purchase behavior throughout the week, day and by department.

- Predicting movie gross revenue: Predicted the domestic gross revenue of a movie before its release using data web-scraped from IMDB and The Numbers, and applying and fine-tuning regression models.

- MTA ridership analysis: Analyzed MTA data with NYC demographic data using python to identify target locations for where to dispatch the street team to advertise a sports drink brand.

Data Analyst, Corporate Risk
J.P. Morgan

01/2018 – 03/2020   *Jersey City, NJ*

Achievements/Tasks

- Designed and proposed a series of metrics that monitor the bank's conduct and operational risk for senior management

- Developed a dashboard prototype through Tableau on the bank's operational risk losses and regulatory engagement activities for ongoing monitoring by senior management

- Explored, extracted and reported insights on the bank's conduct violations data to support a data-driven dialogue between the bank and a US banking regulator

Risk Analyst, Intraday Liquidity Risk
J.P. Morgan

01/2017 – 01/2018   *New York, NY*

Achievements/Tasks

- Designed and monitored a series of intraday risk metrics on the bank's payments activity using SQL and python to help serve as near real-time warning signals to potential liquidity issues

- Defined and periodically reviewed metric thresholds and procedures for metric breach events

- Designed a visualization prototype through Tableau that served as specifications for development by the engineering team

Business Analyst, Liquidity Risk Technology
J.P. Morgan

07/2015 – 01/2017   *New York, NY*

Achievements/Tasks

- Conducted business analysis and testing of scaled deliverables for the bank's key liquidity risk reports, including 5G and Liquidity Coverage Ratio

- Performed ad hoc data analyses at the requests from various liquidity risk teams and stakeholders using SQL and Excel