

Binh Hoang

Experience

Metis

Data Scientist

June 2020 - Current
New York, NY

Completing 12-week accredited data science bootcamp. Projects include:

A User-Empowered Anime Recommender System

- Utilized content-based and collaborative filtering techniques to make anime recommendations
- Productionized recommender system on Flask app where user can control adventurous level of recommendations
- Built Docker container to deploy web scraping script at scale across multiple Google Cloud instances

From Despair to Hope: A Sentiment Analysis of Queer and Trans Asian Pacific Islander Blogs

- Performed NMF topic modeling and VADER sentiment analysis to uncover sentiment trends between beginning, middle, and end of blog posts
- Stored text and metadata scraped from tumblr on MongoDB database
- Visualized document-topic clusters using t-SNE and Plotly

Optimizing Flight Choices for Punctuality

- Modeled flight delay probabilities using logistic regression and VisualCrossing weather dataset, optimized for precision and recall
- Wrote tips to help travelers choose flights with highest probability of being on-time based on logistic regression model coefficients
- Created SQL database to store and query 5 million+ rows of 2015 U.S. flight data

Predicting Global Box Office Revenue of Japanese v. American Animated Films

- Built separate linear regression models for Japanese and American animated films to predict global box office revenue
- Scraped imdb.com data on 3,000 Japanese and American animated films using BeautifulSoup

Expanding NYC Subway Station Accessibility

- Combined NYC subway turnstile data with Google Maps API and census data to recommend top 5 Manhattan subway stations to prioritize elevator installation

D. E. Shaw & Co.

Treasury Associate

Aug. 2015 - Mar. 2020
New York, NY

- Managed financing and securities lending for \$30 billion+ US, Canadian, and Brazil equity books, driving improvements in reporting, connectivity with trading desks, and relationships with equity finance and delta one brokers
- Generated \$6 million in securities lending income and \$8 million in financing cost savings from 2018-2019
- Performed financing/collateral Excel data analyses for Treasurer, CFO, and Chief Risk Officer
- Liaised with development team in India to build new rate negotiation savings calculator, update securities lending UI, and create new financing metrics dashboard
- Founded LGBT affinity group (DESC.out) in 2016 and expanded membership to 100+ employees

Contact

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Education

Yale University

B.A. Humanities (with distinction) 2015

GPA: 3.86/4.00

Cum Laude

Skills

Languages

Python

SQL

HTML

CSS

Machine Learning

Regression

Classification

Clustering

Natural Language Processing

Data Tools

Ski-kit Learn

XGBoost

Pandas

Numpy

Spacy

NLTK

Gensim

VADER

BeautifulSoup

Git

Selenium

Docker

Google Cloud

Databases

SQL

MongoDB

Data Visualizations

Flask

Seaborn

Matplotlib

Plotly

Tableau