

Rudy Wang

DATA SCIENCE / FINANCE



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BIO

Experienced financial risk and regulation professional (3+ years) and recent graduate of Metis Data Science (2020).

Looking to combine analytical and quantitative skillsets with data processing and visualization tools to drive strong results-oriented solutions.

EDUCATION

SEP 2012 - MAY 2016

Finance + Management, B.S.

New York University, Leonard N. Stern School of Business

SKILLS

Languages

Python
SQL

Database

PostgreSQL
MySQL
MongoDB

Machine Learning

Regression Modelling
Classification
Natural Language Processing
Dimensionality Reduction
Neural Networks

Libraries

Pandas
Numpy
NLTK
spaCy
Matplotlib
Seaborn
SciPy
BeautifulSoup
Selenium

Other

Microsoft Word
Microsoft Excel
Microsoft PowerPoint
Mandarin

HOBBIES

New age/jazz piano performance
Billiards (8-ball or 9-ball)
Los Angeles Lakers
Solo Backpacking
New York Cares Volunteering

EXPERIENCE

JUNE 2020 - CURRENT

Data Science Student

Metis in New York City, New York

Completed an immersive, ACCET 12-week data science bootcamp that focused on data acquisition (web scraping/APIs), data management (GCP, MongoDB, SQL), statistical analysis, machine learning (supervised and unsupervised), natural language processing (NLP), neural networks and data visualization.

Projects:

Mask On: A Push for Social Change

- Trained a convolutional neural network in a Google Cloud instance to develop a binary classifier for faces wearing a mask vs not wearing a mask (98% accuracy).
- Created a social incentive system to integrate with Instagram to promote mask wearing online with a focus on school reopening impact with COVID-19.

Predicting Altruism Through Free Pizza

- Utilized Python Reddit API Wrapper (PRAW) and PushShiftData API to extract out 30,000+ Reddit posts from r/random_acts_of_pizza. Pre-processed the submissions with NLTK and spaCy, conducted sentiment analysis with VADER, and produced a KNN Classification model with an accuracy score of 0.91.

Predicting NBA Attendance

- Built and optimized linear regression models to predict filled capacity at NBA stadiums using NBA stats and social factors. Scraped data of over 700+ observations using BeautifulSoup and Selenium.

Classifying Online Shoppers Intentions

- Created logistic regression and XGBoost models to predict whether unique visitors on a small online website generated revenue or not. Processed 12,000+ observations obtained through Kaggle and achieved an F1 score of 0.68 (Logistic) and 0.70 (XGBoost).

JUNE 2018 - MARCH 2020

Alternative Net Capital (ANC) Specialist Examiner

FINRA in New York City, New York

Conducted net capital reviews for clients such as Goldman Sachs & Co., J.P. Morgan Chase & Co., Citigroup, Inc., and Morgan Stanley & Co to ensure compliance with SEA Rule 15c3-1 (Appendix E).

- Performed quantitative analysis with Microsoft Excel and Pandas on VaR, sVaR, and other capital measures with clients' data to evaluate quarterly, yearly trends that may be of regulatory concern.
- Prepared 5+ written narratives that combined visualizations tools such as Matplotlib and Seaborn that identified processes and recommendations for clients to improve their regulatory procedures to align with SEA Rule 15c3-1 (Appendix E).

JUNE 2017 - JUNE 2018

Global Marketing and Corporate Affairs – Social Media Risk Analyst

Bank of America in New York City, New York

Created automated review processes for marketing, promotional, and social media digital assets for financial advisors and other stakeholders.

- Developed 5 monitoring review scripts by implementing Pandas analysis to fix communication retention gaps for social media accounts of Enterprise, Global Banking and Markets, and Global Wealth and Investment Managements.
- Responsible for 8 monthly/quarterly monitoring routines – leveraged Excel macros to simplify the function of the routines for analysts going forward.