Randy Payano

Data Scientist

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ABOUT ME

Creative, quantitative, and entrepreneurial Data Scientist with a strong mathematical background, excellent analytical and problem-solving skills.

Ability to simplify complex information and translate it into actionable recommendations that help business stakeholders make smarter decisions.

SKILLS

Python tools

**Python / Matplotlib / Data Mining
NumPy, Pandas, PySpark, API Interactions**

Databases

**Databases
MySQL, MongoDB**

Machine Learning

**Linear Regression, kNN, Clustering,
Dimensionality Reduction Algorithms**

Front End

**Front-End-Web-based Data Visualization
HTML, CSS, Bootstrap, Dashboarding,
JavaScript Charting, D3.js, Leaflet.js**

EDUCATION

Certificate - Data Analytics

Columbia University (2018-2019)

Certificate - Data Scientist Path

Data Camp (2018-2019)

A.A Criminal Justice

Borough Manhattan C.C (2014-2016)

PROJECTS/PUBLICATIONS

Pairs Trading

- Deployed various ML algorithms to take advantage of a market neutral strategy "Pairs Trading". In order to find eligible pairs which, exhibit unconditional mean-reverting behavior. Queried 1,500 equities, used PCA to reduce the dimensionality the Returns data. For accuracy the following data was added to the model; Sector, Financial Health and Market Capitalization. Next, DBSCAN was used to find all clusters. Following T-SNE is used to plot all our equities alongside DBSCAN's clusters. To narrow down our pairs a Mathematical function from QuandL was integrated. Finally, we use T-SNE to visualize our pairs.
- Tools: PCA, DBSCAN, T-SNE, QuandL API, Pandas, NumPy
- Link: https://randypayano.github.io/PairsTrading.html

ESG

- Developed a country normalized scoring system based on their respective Environmental, Social and Governance Data. This system can be used for sustainable, socially responsible and mission-related investing.
- Tools: Pandas, World Bank Data API, Seaborn, Matplotlib
- https://prezi.com/ehipnsjua_5f/esg-what-does-it-tell-us/

Head Concierge

432 Park Avenue / New York / 2015 - Present

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