ANTHONY KHOUDARY

DATA SCIENTIST

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Skills

PYTHON
pandas
NumPy
Scikit-learn
matplotlib
Seaborn
Flask
SQL Alchemy
API
Scrapy
Selenium

JAVASCRIPT
D3
P5

MACHINE LEARNING
Linear Regression
Logistic Regression
Supervised Learning
Unsupervised Learning
Classification
Naive Bayes
NMF
LDA
Recommender Systems
Random Forest
KNN

SQL
PostgreSQL
NoSQL
MongoDB

BIG DATA
Spark
Hive

NATURAL SCIENCES
Cell Culture
Tissue Culture
Buffers
Spectrophotometry
Tensile Testing
Vacuum Filtration
Materials Characterization

Experience

Metis
Data Scientist

New York City, NY
Apr 2018 to Jun 2018

- Completed 12-week immersive Data Science program, covering statistical inference, machine learning, programming, communication, and project design
- Designed, implemented, and presented five end-to-end real world projects, from data acquisition to statistical modeling and visualization. See "Projects" section for examples

Modern Meadow
Materials Science Research Associate

Brooklyn, NY
Apr 2016 to Sep 2016

- Collaborated with PI in designing and executing experiments in accordance with producing world's first biofabricated leather
- Surveyed and summarized current scientific literature for supervisors to scout potential research initiatives
- Independently analyzed tensile, rheological, and chemical properties of various fabricated materials using a texture analyzer, rheometer, DSC, and spectrophotometer
- Organized and conveyed results from independent and collaborative research to a multidisciplinary team

Cell & Tissue Culture Research Assistant

Aug 2015 to Apr 2016

- Collaborated with Operations team to execute experiments using aseptic technique in cell and tissue culture to understand properties of engineered materials to address critical project goals
- Authored SOPs for interdepartmental use

Janssen Pharmaceuticals
Discovery Science Organic Synthetic Chemist Intern

Ambler, PA
Jun 2014 to Aug 2014

- Organized and executed chemical syntheses schemes to make novel organic molecules Identified as possible inhibitors for an N-methyltransferase
- Overall goal to create SAM-like analogs containing different functional groups that can bind within the acceptable angstrom distance to four histidines in active site pocket

Vassar College
Research Assistant to Professor Christopher Smart

Poughkeepsie, NY
Jan 2014 to May 2014

- Reacted fullerenes with a multitude of aldehydes in order to create a mono-substituted fullerene product
- Overall goal was to identify and isolate a mono-substituted fullerenes via HPLC to generate an image of its crystal structure

Projects

Manhattan Nightlife Recommender
May 2018 to Jun 2018

- Scraped reviews for ~2500 nightlife destinations on Yelp
- Performed topic modeling using NMF in order to understand deeper levels of similarity between various nightlife venues
- Built interactive Flask App that plots Manhattan nightlife recommendations on a Google Maps overlay

Predicting Pima Indians Diabetes Diagnoses
Apr 2018 to May 2018

- Utilized logistic regression to generate numerous models that predict the diagnoses of diabetes based on varying levels of patient diagnostic invasiveness
- Built interactive Flask App that generates risk of Type II diabetes diagnoses based on various criteria

Securing the Blank Check: Predicting Total Box Office Revenue
Apr 2018 to Apr 2018

- Scraped ~6,000 pages from boxofficemojo.com and the-numbers.com for movie information including budget, total worldwide gross, etc.
- Utilized linear regression to predict total worldwide movie gross in order to ascertain movie genres with most consistent budget to total gross ratio

WomenTechWomenYes Canvassing Analysis
Apr 2018 to Apr 2018

- Used MTA turnstile data to predict best times and stations for street teams to canvas for signatures/donations to the gala WomenTechWomenYes

Education

Vassar College
Biochemistry with Honors 2015
GPA: 3.60/4.0