

FONG WA C. MUI

DATA SCIENTIST

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Action-oriented strategic thinker and effective communicator with 15+ years experience across data science, finance and entrepreneurial roles. Respected for ability to tackle complex business issues and collaborate with diverse stakeholders to execute holistic solutions.

Skills

NATURAL LANGUAGE PROCESSING

Topic Modeling
Sentiment Analysis
SpaCy
NLTK

MACHINE LEARNING - UNSUPERVISED

K-Means Clustering
DBSCAN
Dimensionality Reduction

MACHINE LEARNING - SUPERVISED

XGBoost
Linear Regression
Logistic Regression
Random Forests
Decision Trees
K-Nearest Neighbors
Naive Bayes

CLOUD / DATABASES

AWS
MongoDB

DATA GATHERING

Beautiful Soup
Selenium

DATA VISUALIZATION

Tableau
Matplotlib
Seaborn
PowerPoint

COMPUTER LANGUAGES

Python
SQL

Experience

METIS

Data Scientist

Philadelphia, PA

2020 to Current

Accredited full-time data science immersion program focused on Python programming and modeling, machine learning, data analysis, data visualization, project design and implementation

Project Highlights

Unsupervised & Semi-Supervised Learning: Clairvoyant Clustering of Consumer Complaints

- Designed a multi-faceted approach to analyzing text and segmenting financial companies identified in 22K consumer complaints filed with the Consumer Financial Protection Bureau:
 - SpaCy for high-speed text pre-processing
 - CorEx (Correlation Explanation) for anchored topic modeling to uncover informative document themes
 - K-Means algorithm to segment 1600+ companies into 6 clusters, visualized along two dimensions using PCA

NLP: A Smarter Approach to Financial Filings

- Deployed natural language processing techniques to explore annual reports filed by startup companies with the SEC
- Crafted a machine learning strategy for narrowing down / prioritizing 200+ documents via:
 - Topic modeling with NMF alongside LSA and LDA
 - Sentiment analysis with VADER

Linear Regression: Salary Prediction

- Used Beautiful Soup and Selenium to scrape data from Levels.fyi, Salary.com and Wikipedia
- Applied linear regression to data with goal of predicting data scientist compensation and interpreting influential features

Classification: Predicting Loan Defaults

- Trained a classification model using logistic regression to assess likelihood of SBA loan defaults
- Dataset from Kaggle with 900K loans; stored in and accessed from PostgreSQL
- Explored techniques for addressing data imbalance including SMOTE and random oversampling
- Presented results with Tableau

JETSON AI ▶ conversational AI startup

Chief Operating Officer

New York, NY

2019 to 2020

- Led process for raising \$1M seed stage capital through equity crowdfund campaign
- Operations maverick covering finance, HR, recruiting and legal areas of the business

ADVANTAGE CAPITAL ▶ impact investment fund

Vice President

New York, NY

2018 to 2019

- Led new investor engagement efforts for solar tax-equity team

BARCLAYS ▶ investment banking

Vice President, Private Capital Markets

New York, NY

2013 to 2018

- Drove capital raising transactions to execution for growth stage and mature companies through use of bespoke private equity, debt and hybrid securities
- Crafted recommendations to clients on deal structure, process management and investor targeting
- Project management for all aspects of deal process: call on investors during syndication; present investor feedback to executive teams; negotiate term sheets on behalf of clients

ADOPT-A-CLASSROOM ▶ education non-profit

Director of Development

Miami, FL

2009 to 2011

- Created and implemented strategy for corporate partnerships
- Raised \$400K in donations, impacting 100K+ students across US

ARGYLE EXECUTIVE FORUM ▶ startup conference platform

Business Development / Sales Director

New York, NY

2007 to 2009

- Sourced 400% increase in new client base using data-driven strategies and a consultative selling style
- Generated \$800K revenue through corporate partnerships across six conferences, 15% above sales goals

Head of Event Management

2006 to 2007

- Designed and integrated a proprietary tech-enabled event management system allowing company to scale production from 7 to 50 events within 1.5 years and generate additional profits in excess of \$5.5M annually

DAYMON WORLDWIDE ▶ private-label sales & marketing

Management Development Associate

Stamford, CT

2005 to 2006

- Conducted market research and evaluated consumer trends for private-label food products

Education

BA, The University of Pennsylvania

Communication & Marketing

2001 to 2005

MBA, The University of Chicago Booth School of Business

Finance; Managerial & Organizational Behavior

2011 to 2013