

SOPHIA QIONG LI

DATA SCIENTIST

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SKILLS

PROGRAMMING LANGUAGES

Python
SQL /SQLAlchemy

DATA SCIENCE PACKAGES

NumPy
Pandas
SciKit-Learn
Keras / Tensorflow
NLTK

DATA VIZ

MatPlotLib
Seaborn
Tableau

SUPERVISED LEARNING

Linear Regression
Logistic Regression
Naïve Bayes
K-Nearest Neighbors
Decision Trees
Random Forest
Neural Networks

UNSUPERVISED LEARNING

K-Means Clustering
Hierarchical Clustering
DBSCAN
T-SNE

DATA / CLOUD

BeautifulSoup
Selenium
PostgreSQL
MongoDB
Apache Spark / Pyspark
AWS

WEB DEPLOYMENT

Flask
Streamlit

EDUCATION

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

B.S. Accountancy Aug 2013
B.S. Finance Aug 2013
M.A.S. Accountancy Dec 2013

EXPERIENCE

METIS

Data Scientist

Chicago, IL
2020

- Completed ACCET-accredited immersive data science bootcamp
- Designed and executed five data science projects from conception to delivery where projects ranged from exploratory data analysis, machine learning, and data visualization

MERRILL LYNCH – GLOBAL WEALTH & INVESTMENT MANAGEMENT

Business Support Manager

Chicago, IL
2018 - Present

- Assisted Market Executives with planning, leading, and executing strategic proposals in the Chicago Metro Market
 - Prepared and analyzed weekly Business Result, Growth Grid, and EIG Reports
 - Completed ad hoc projects and coordinated multiple market events
- Oversaw talent acquisition to maintain competitive market environment
 - Enhanced and further streamlined the recruiting process
 - Designed different operational tools to track market hiring and diversity target
- Supported financial advisors by processing business services such as account redistributions, pool formations, and revenue splits, and compensation analysis

ERNST & YOUNG LLP – GLOBAL TAX REPORTING SERVICES

Operations Process Project Manager

Chicago, IL
2017

- Developed and executed a new internal process related to the Foreign Account Tax Compliance Act (FATCA) reporting obligation
 - Streamlined the Q&A Process to support the internal engagement teams
 - Directed global cross functional teams to execute and achieve process objectives
- Diagnosed operational hurdles and created proper mitigation/escalation protocols in anticipation of future problems and risks
 - Launched a repository database by utilizing/modifying internal technology
 - Developed training materials and instruction manuals for the PM position
- Reviewed SOWs with business pursuit teams to identify opportunities to further expand the GTRS practice

ERNST & YOUNG LLP – FINANCIAL SERVICES OFFICE

Senior Associate

Chicago, IL
2013 - 2017

- Provided financial/annual statement analysis for Fortune 500 corporations in the insurance industry
 - Completed GAAP to STAT balance sheet and income statement analysis
 - Analyzed DAC and deferred tax (DTA/DTL) evaluations
- Delivered compliance and audit services in accordance with ASC 740 and SSAP 101
 - Provided Provision to Return (PTR) analysis as well as research/issue documentation
 - Prepared and reviewed U.S. federal and international tax returns: Forms 1120 1120-PC, 1120-L, 1120-F, 5471, 8937, 8938, and 953(d) & 831(b) elections
- Managed 47 separate 831(b) microcaptive clients
- Led engagement economics for multiple clients
 - Performed project scoping and planning with clients and other internal teams
 - Analyzed and built engagement financial models, forecasts, and projections
 - Allocated resources to fit both business and financial needs of engagements

PROJECTS

SUPERVISED IMAGE CLASSIFICATION - LET'S GET TONED!

- Created a supervised image classifier that can detect a person's skin undertone by building a convolutional neural network (CNN) using tensorflow and transfer learning
- Utilized confusion matrix to identify and address issues presented by the model
- Built a streamlit app designed to predict a person's skin undertone based on their photo

UNSUPERVISED NLP - READY, SET, GO!

- Analyzed the difference between Korean and English nursery rhymes
- Used latent semantic analysis (LSA) to identify key topics in nursery rhymes
- Created wordclouds to compare and visualize the difference between Korean and English nursery rhymes

SUPERVISED CLASSIFICATION - WILL KELLY STAY?

- Used HR data to predict whether an employee will stay or leave the firm
- Created a PostgreSQL database on AWS instance to store data
- Computed confusion matrix to evaluate the cost of false positive vs false negative cases
- Built a streamlit app that would predict whether an employee will stay or leave

LINEAR REGRESSION - 2020 OLYMPICS

- Built a linear regression model to identify most significant features that impact Olympic performance of difference countries
- Scraped data from wikipedia using BeautifulSoup and used feature engineering techniques