

JONATHAN WYATT

DATA SCIENTIST

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SKILLS

LANGUAGES

Python

SQL

DAX

HTML

CSS

LIBRARIES

Pandas

Scikit-learn

Numpy

BeautifulSoup

Selenium

XGBoost

Keras

TensorFlow

PyTorch

spaCy

NLTK

Spark

DATA VISUALIZATION

PowerBI

Tableau

Matplotlib

Seaborn

Plotly

MACHINE LEARNING ALGORITHMS

Linear Regression

Logistic Regression

k-Nearest Neighbors

Decision Trees

k-Means Clustering

Principal Component Analysis

Gradient Boosted Machine

Convolutional Neural Networks

Long Short-Term Memory Networks

Naive Bayes

CLOUD & DATA

AWS

MongoDB

Excel

GIT

CORE COMPETENCIES

Agile

Operations

Project Management

Process Redesign

Qualitative & Quantitative Financial Analysis

Negotiation

Trading

Analytical Method Development

EXPERIENCE

Metis · Chicago, IL

Feb. 2021 to June 2021

Data Scientist

Completed a full-time immersive data science program covering topics such as programming, machine learning, statistical modeling, data visualization, analysis and communication. **Projects include:**

NLP Stand Up Comedy Topic Modeling and Recommender

Leveraged Natural Language Processing to analyze comedy transcripts for topic modeling, sentiment analysis and comparisons across gender. Used NLTK and spaCy for text preprocessing, TF-IDF vectorization, Anchored Corex topic-modeling. Cosine distance metrics were applied to quantify the similarity between Comedians across Transcripts

Hit Song Classification with Logistic Regression

Created a supervised classifier using Spotify API song features from 40K+ songs to predict a song making the Billboard top 100. The model performed with 85% accuracy on current, unseen Billboard list. Supervised Algorithms included KNN, logistic regression, naive bayes, decision trees, random forest, SVM, and XGBoost

Imperfect Produce Business Case

Utilized Census, Google Trend and Imperfect Produce public information to develop a new market expansion plan into the Southeast, identifying maximum benefit of helping people in lower income food deserts along with densely populated affluent counties while minimizing carbon footprint

Linear Regression Prediction of NBA Free Agent Salaries for Summer 2021

Using ten years of basketball statistics, implemented LASSO, Ridge, Elastic Net and Random Forest Models to predict market values for the top free agents for Summer 2021 including over and under valued players and the statistics and attributes that contribute most to future performance.

MTA Turnstile and COVID 19 Exploratory Analysis

Scraped New York City Turnstile and NY Department of Health data for COVID 19 Cases analyzing trends in MTA ridership from the beginning of the Pandemic to date. Looked at cases by Borough and compared data to current estimate budgetary shortfalls from reduced ridership

BP - Integrated Supply & Trading · Chicago, IL Senior North American Asset Economist (2018 - 2021)

July 2009 to Jan. 2021

Consistently promoted throughout tenure and most recently tapped to overhaul refinery optimization software and interface tools with startup success involving coordination of 3rd-party software provider, global internal developer team, central modeling experts, and final business customers.

- Achieved 15% cost reduction (\$45M Budget) through agile management, leading bi-weekly sprints as Scrum master, delivering software roll out to 200+ global customers
- Planned, designed, and crafted business investment projects working with stakeholders across five business units to enhance profit margin of \$37M in 2018 and \$71M in 2019

Chicago, IL

Crude Asset Trader (2015 - 2018)

Optimized supply chain associated with two refineries and four terminals by supervising cross-functional teams of commercial, trading, operational, and legal personnel. Generated revenue by identifying synergies associated with refinery integration.

- Initiated new crude approval process leading to access to advantageously priced feedstocks culminating in negotiation of a six-month term deal enhancing profit margins by \$63M above plan
- Recommended and implemented hedging plan with a business case to trading and supply leadership, reducing refinery risk and generating \$30M+ of cash flow and in 2015

Crude Trading Analyst (2012 - 2015)

- Created KPI metrics based dashboards and meeting cadence for retrospective analysis that reduced rail demurrage costs by 10%
- Conducted weekly model analysis of refinery and proposed operational strategies working across trading, supply and engineering for \$4B worth of purchases and sales decisions

Chicago, IL

Market Fundamental Analyst (2009 - 2012)

- Monitored and analyzed market fundamentals synthesizing insights into trading strategies in conjunction with head traders for the gasoline, distillate, and fuel oil trading in support of two record trading profit years (+\$300M).
- Designed and crafted global internal website for monitoring historical prices of trading products, working with trading and software developers and utilized by over 300 analysts and merchants globally.

AP CAPITAL · East Lansing, MI Actuarial Analyst

May 2008 to June 2009

Colorworks · Detroit, MI Owner

May 2005 to May 2008

EDUCATION

University of Michigan - Ross School of Business

Bachelors of Business Administration Finance/Economics 2008