

SUMMARY

Jonathan is a seasoned techno-functional management consultant with a focus on business analytics and data science. Currently, he is serving his clients as a solution architect and data engineer developing strategies and leading implementations in the data analytics and prediction modeling space. Jonathan thrives on working with diverse teams and ambiguity overcoming challenges with meticulous attention to detail.

SKILLS

SUPERVISED MACHINE LEARNING: Linear/Logistic Regression, Tree-based Methods, Ensemble Models, Classification
UNSUPERVISED MACHINE LEARNING: Dimensionality Reduction, KMeans, DBScan, PCA, SVD, T-SNE
NLP: Topic Modeling, NMF, PCA, SVD, LDA, RegEx, CountVector, TFIDF, Stemming, Lemmatization, Word2Vec
DATA TOOLS: Pandas, Numpy, Sklearn, Python
DATABASE TOOLS: SQL, NoSQL, MongoDB, Postgres
DATA VISUALIZATION: Matplotlib, Seaborn, Tableau, PowerBI, Streamlit, Flask
OTHER: AWS, Git, BeautifulSoup, Selenium, JavaScript, HTML/CSS, Hadoop, A/B Test, Hypothesis Test, Time Series Analysis, PySpark, PyTorch, Dask, Hadoop
NEURAL NET: CNN, RNN, Transfer Learning

EXPERIENCE

DELOITTE CONSULTING LLP

Consulting Manager

Seattle, WA
Jan. 2011 to Current

- Organize and execute large multi-national analytical platform implementations based on robust project methodology to enable real time decision making ability to C-suite executives
- Direct and mentor diverse teams of developers and data analysts to deliver world-class analytics solutions and visualization enablers to product teams and business leaders
- Leverage automation, cognitive and science-based techniques to manage data, predict scenarios and prescribe actions
- Qualify large datasets via cloud based solutions by evaluating algorithms, models, and methods to support business case formulation and evaluation
- Implemented large-scale data ecosystems including data management, governance and the integration of structured and unstructured data to generate insights leveraging cloud-based platforms
- Present key findings in a concise and articulate manor to both technical and non-technical business partners to drive business performance post established software development methodologies

METIS

Data Scientist

Remote
June 2020 to Sept. 2020

- Completed the ACCET accredited data science bootcamp
- Utilized Python as primary programming language to develop solutions via 17 challenges and 5 major life cycle projects
- Leveraged machine learning methods and created interactive visualizations and findings in presentations to peer data scientists and principles

MERCER INVESTMENT CONSULTING

Investment Analyst

Seattle, WA
2009 to 2009

- Supported the provision of investment advice to a range of institutional clients, through preparing written recommendations and completing analytical assignments, across the full investment cycle
- Prepared investment reports including assessment of the performance of markets, investment managers and client portfolios
- Built relationships with asset managers, internal colleagues and clients

SAFECO INSURANCE

Financial Analyst

Seattle, WA
2008 to 2008

- Created and maintained detailed financial models to aid in analyzing existing and prospective investments
- Conducted analyses of financial results, evaluated management strategy and market positioning, quality of assets, deal structure and covenant analysis

PROJECTS

NN - SPOKEN LANGUAGE IDENTIFICATION

Utilized Convolution Neural Network and RandomForest Classifier to train perspective models to be used for prediction to identify the language spoken. The features were extracted post processing via Librosa and PyDub. Results were showcased via presentation to the cohort and senior Data Scientists.

CLASSIFICATION - MARKETING STRATEGY FOR BANK LOANS

Constructed deployment strategies via classification to optimize marketing campaign efficiency. Data was processed on AWS via Postgres for feature engineering. Supervised learning via XGBoost and Tree Based Models post optimization via F1 score. The deployment was carried out via a Streamlit and Tableau.

RECOMMENDATION - PERSONALIZED MOVIE RECOMMENDER

Applied NLP via topic associations and sentiment analysis to create a movie recommender via cosine similarity. RegEx was heavily utilized for EDA, TFIDF and NMF were utilized for vectorizing along with Part of Speech tagging and clustering via Kmeans combined with unsupervised feature extraction methods.

REGRESSION - USED CAR LISTING PRICE PREDICTION

Predicted car sales price via linear regression models. Data was scraped from BeautifulSoup and Selenium and parsed out via JSON. The Regression was optimized via LASSO and RIDGE methods leading to the highest yield of R Squared and lowest RMSE.

METIS - MTA TURNSTILE

Taken the NYC MTA Turnstile data to formulate the optimal team placement based on busiest states and external factors from Census information. Visualization was created via Matplotlib and Seaborn with an emphasis on geographical information via geo-py and GeoPandas.

EDUCATION

Seattle University
BA Finance and Accounting

Sept. 2008 to June 2010

University of Washington
BS Information Technology

Sept. 2004 to July 2008