

PROFESSIONAL SKILLS

- Computer skills: Excel, Access, Word, PowerPoint, Azure Data Studio, Bloomberg Terminal, SAP
- Programming: Python (NumPy, Pandas, Scipy, Scikit-learn, TensorFlow, PyTorch, BeautifulSoup, NLTK), R (Tidyverse, RANN), PostgreSQL, SAS
- Visualization and Statistical Software: Tableau, Python (Matplotlib, Seaborn, Plotly, Wordcloud), R (Ggplot2), SAS
- Big Data: Hadoop, Hive, Spark
- Analytics, Statistical Analysis, Machine Learning, Financial Modeling, Quantitative Analysis, Security Analysis, Problem Solving, Valuation, Research

PROFESSIONAL EXPERIENCE

- FIVERR** Chicago, IL
Freelance Data Analyst Jun 2020 - Present
- Provided data processing, data visualization, and data extracting insights from customer requests using Python, R and SAS
 - Applied time series analysis, predictive analysis, and supervised learning (model preparation, classification problems) by applying machine learning algorithms (Logistic and Linear Regression, Decision Trees, Random Forest, SVM) for utilizing dataset

- IVYLINE CAPITAL GROUP, LLC.** Lancaster, PA
Apprenticeship Equity Analysis Sep 2018 – May 2019
- Developed complex portfolio management strategies and effectively applied them to security analysis within the investment industry
 - Created a successful investment portfolio that used the investment strategy with derivative analytical plan to invest \$10 millions paper money on a Think or Swim platform on performed equities: XOM, EOG, GM, BA, and TSLA to gain \$1.731 millions in 9 month
 - Utilized derivative and statistical analysis effectively to evaluate the return investment in equity options and portfolio management

ANALYTICS PROJECT EXPERIENCE

- AMAZON FINE FOOD REVIEW** Jan 2021
- Utilized Sparse Matrix by using Python packages (NumPy, Pandas, Scipy) to design recommendation systems based on food item popularity and users' ratings
 - Applied text processing with NLTK package and Scikit-learn packages (TfidfVectorizer, CountVectorizer, Gensim) to develop the sentiment analysis that predicts positive and negative reviews by utilizing machine learning technique (Logistic Regression and Bernoulli Naïve Bayes)
 - Created clustering model with K-mean to extract top words that impact the sentiment analysis and applied t-SNE to plot those words with Plotly package
 - Developed deep learning model to learn the dataset better with ANN and RNN – LSTM by applying TensorFlow.Keras and tuning model to gain higher accuracy scores

- AIRPLANE CRASHED** Nov 2020
- Utilized Python packages (Pandas, NumPy, Seaborn, Matplotlib) to develop a story of the airplane crashed trending based on time, regions, operators, and aircraft
 - Built clustering models (K-Mean, Hierarchical, DBSCAN) to cluster airplane crashed and texting on the dataset by utilizing machine learning technique (Scikit-learn) and evaluated the best model based on a loop function of Silhouette Coefficient scores
 - Applied dimension reduction (PCA, t-SNE, UMAP) to visualize accuracy results

- FASHION MNIST** Nov 2020
- Created unsupervised learning/ clustering models (K-Mean, Hierarchical, Gaussian Mixture, DBSCAN) by utilizing machine learning package (Scikit-learn) to cluster the common images
 - Evaluated the best model based on a loop function of Silhouette Coefficient scores
 - Applied dimension reduction (PCA, t-SNE, LDA, UMAP) to visualize accuracy results
 - Developed a 3D plot by applying Plotly

- LENDING CLUB'S LOAN DATA FROM 2007 TO 2011** Oct 2020
- Built a model in Python to improve a loan prediction repayment and analysis to the next level by utilizing machine learning technique (Scikit-learn) and by incorporating a strategy for hyperparameter tuning (GridSearchCV) to Random Forest Classifier and Gradient Boosting Classifier
 - Developed data story efficiently and effectively by cleaning out the unnecessary features and pointing out the core variables that have impacts on loan prediction model
 - Clarified the best models that fit the dataset with high accuracy scores

EDUCATION

- DEPAUL UNIVERSITY, KELLSTADT GRADUATE SCHOOL OF BUSINESS** Chicago, IL
Master of Science in Business Analytics: Data Science Jun 2021
- Dean's Scholarship
 - GPA 3.78 / 4.00
 - Vice President of Kellstadt Business Analytics Organization

- THINKFULL, INC.** Chicago, IL
Data Science Flex Coding Bootcamp Feb 2021

- LIBERTY UNIVERSITY, SCHOOL OF BUSINESS** Lynchburg, VA
Bachelor of Science in Business Administration: Finance May 2018