YITING(STELLA) WANG

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Educational Background

University of Southern California (USC) Aug 2021 - May 2023

- Master of Engineering, majoring in Applied Data Science

University of International Business and Economics (UIBE) Sep 2017 - Jun 2021

- Bachelor of Economics, majoring in Quantitative Finance (Honor)

Project Experiences

Generative Models for Text – Deep Learning | *Python*

- Built LSTM models to mimic the writing style of Russell and found the best weights in terms of loss;
- Trained epochs and used the network with the best weights to generate characters.

CNNs for Image Colorization - Deep Learning | *Python*

- Built k-means clustering models to get the main color and set up a deep convolutional neural network;
- Trained epochs to turn grayscale images to colored images and report results.

Recommendation System – Machine Learning | *Python & Spark*

- Built item-based CF recommendation system with Pearson similarity using yelp dataset with Spark Rdd;
- Used Spark Rdd to select the features and XGBregressor to build model-based and hybrid recommendation system;
- Predicted the stars for given user ids and business ids and reduced the RMSE to 0.97 successfully.

Social Networks – Data Mining | *Python*

- Wrote my own Girvan-Newman algorithm to calculate the betweenness of each edge in the graph;
- Divided the graph into suitable communities, which reaches the global highest modularity;
- Re-computed the betweenness after removing the edges and detected the communities in the network graph.

Bradley-Fayyad-Reina (BFR) Clustering – Machine Learning | *Python & Spark*

- Used k-means model to cluster the data into three datasets: Discard Set (DS), Compression Set (CS), Retained Set (RS);
- Implemented my own BFR algorithm to cluster and predict the cluster, increased the accuracy to 98% successfully.

Work Experiences

Minmetals Securities Beijing, China

Data Analyst Intern Sep 2020 - Jun 2021

- Used SQL to collect and sort out more than 10 thousand bond issuers's financial and credit data;
- Built non-linear models through correlation and time series analysis to evaluate bond issuers with Python;
- Utilized Tableau to automate reporting and optimize data visualization procedures;
- Analyzed profitability, debt-paying ability and related risks of bond issuers and wrote bond investment report.

Soochow Securities Co., Ltd. Beijing, China

Data Analyst Intern Jan 2020 - Mar 2020

- Built valuation models to evaluate corporations in the non-ferrous industry by Python and visualized by Tableau;
- Predicted demand and supply of copper in the next season, gave investment advice and wrote the report;
- Communicated with other teams to clarify needs and provided timely data support with SQL.

Awards & Skills

Awards: Second Prize in the Mathematical Modeling and Computer Application Competition of Undergraduate

Skills: Python, Spark, MySQL, Tableau, AWS, MATLAB, VBA, C++, R, Java, Stata.