

# 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.

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.

Website about Latest Crime near USC Campus – Full Stack Web Technologies | *Python & MySQL & Java*

- ♦ Crawled related pieces of the alerts on the DPS website from the past three years and import them into MySQL database;
- ♦ Wrote SQL files as store procedures for Python application to interact with MySQL database;
- ♦ Realized signing up, signing in, adding and getting incidents and other functions using Java and Python Flask.

## 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.