LINGMEI ZHAO

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Portfolio (Projects sucessfully completed): https://lingmeizhao.github.io/

Education

The George Washington University — Expected May 2020
Master of Science in Statistics — Washington, D.C., USA

Shanghai University of International Business and Economics — Sept 2013 - July 2017
Bachelor of Arts in Assets Appraisal, GPA: 3.86/4.00 — Shanghai, China

Skills

Programming Languages	C++, Java, Python, R, Scheme, SQL, Html, CSS, JavaScript
Computer Skills	Linux, Ms Office, SAS
Technologies	Data Analysis, Software Development, Machine Learning, Recommender System

Experience

Data Science Research Assistant — Oct 2018 - Expected Feb 2019
George Washington University — *Washington D.C. Metro Area, USA*

- Project Title: A.I. and User Behavior for Robust Near Real-Time Recommendations.
- Working as a group research collaborator for Dr. Benjamin Harvey, faculty of the George Washington University.
- Designing and implementing Machine Learning algorithms supporting the recommender system.
- Developing the recommender system using Java with team members, utilizing Github for version control.
- Contributing to data cleaning and feature engineering work using Python and R.

Data Analyst Intern — Aug 2016 - Feb 2017
Kantar Media CIC — *Shanghai, China*

- Analyzed the opinion and voice of virtual communities and network users towards TV shows. Wrote eight industry reports with team members for Group M to support client's strategy.
- Collected more than one million product reviews and user information from online social media channels and summarized effective data monthly.
- Plotted word clouds of online comments using Python wordcloud package and plotted bubble diagram of key review words using R.

Independent Projects

Bulletin Board Web App

- Project Link: https://lingmeizhao.github.io/bulletin-board/
- Applied CSS/HTML to design the web appearance.
- Used React.js to build interactive UI.
- The notes on board can be added, removed, and edited. I used a random number to choose the position of every note, which makes them randomly scattered on bulletin board.

Sentiment Analysis on Hotel Reviews

- Visualized word frequency of 18,000 hotel reviews using bar charts and word clouds using Python.
- Applied χ^2 test to select the top 500 important words as features to train the model. Divided reviews as positive and negative according to its users' ratings.
- Constructed logistics regression model to make predictive sentiment analysis for hotel reviews using R.

Game Recommender System

- Plotted a bar chart to analyze the top 10 video games, and used a density distribution diagram to analyze time distribution of game playing time using Python.
- Constructed rating evaluator based on purchase record and play time of 10,000 users.
- Applied Collaborative Filtering to make recommendations for users using pandas and numpy.