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EDUCATION

• The George Washington University Master of Science in Data Analytics (Computer Science Track) Washington D.C., USA Anticipated July. 2020

 Shanghai University of International Business and Economics Bachelor of Arts in Economics; GPA: 3.71/4.00

Shanghai, China Sept. 2013 - June. 2017

Skils

• Programming Languages: C, C++, C#, Java, Scala, Python, R, SQL, Scheme/Racket, Html/CSS

• Analytical Skills: Data Analysis, Social Network Analysis, Natural Language Processing

• Technologies: Qt5, Linux, MySQL, Spring MVC, Spark, Recommender System, Compiler Design, Gephi

Work Experience

George Washington University

Washington D.C., USA

Computational Social Scientist

Sept. 2018 - Anticipated April. 2019

Social Network Analysis and Data Analysis:

- * Working with Professor Vontrese Pamphile at the George Washington University School of Business.
- * Helping manage ongoing research projects related to social network analysis.
- * Applying mathematical and statistical techniques to novel data, including SIENA model.
- Programming: Reviewing academic papers. Using Python and R to clean the dataset and run the models.

Kantar Media CIC

Shanghai, China

July 2016 - Feb 2017

Data Engineer Intern

- Data Collection: Designed data collection and data cleaning solution for Chanel APAC project.
- o Data Visualization: Developed Data Visualization Solution for GroupM television show, which can generate Venn Graph according to given input numbers automatically.
- Text Mining System: Developed text mining system with team members. The system was used by more than 50 data analysts in the company to make data analysis solution for L'Oréal, Chanel, Volkswagen, and Dell. Saved more than 10,000 dollars of outsourcing cost.
 - * The system contains a rule parser and an evaluator, letting the data analysts define the patterns they want to match.
 - * The system can provide basic-level functions for sentiment analysis.
 - * The system processed millions of text data records every month.
- Sentiment Analysis: Improved the accuracy of sentiment analysis by 17% compared to previous tool used in the company.
 - * Used jieba package in Python to cut the Chinese content into separated words.
 - * Selected words as features that are important for classification by χ^2 test.
 - * Applied the logistic regression to classify the sentiment of user comments.

Research

A.I. and User Behavior for Robust Near Real-Time Recommendations

Washington D.C., USA

Research Collaborator

Oct 2018 - Expected Feb 2019

- o Affiliation: Group Research Collaborator for Dr. Benjamin Harvey, Faculty of the George Washington University
- Recommender System Design: Designing the architecture of a recommender system which is an intergration of user behavior analysis and Collaborative Topic Regression.
- Software Development: Developing the recommender system using C++, Java, and Python. Implemented machine learning algorithms to build robust models.

Selected Projects

- Compiler and Virtual Machine: Developed a compiler for a statically typed language, a bytecode disassembler, and a virtual machine. And also, designed a bytecode instruction list, which is similar to the JVM instructions. The compiler and disassembler are written in C++ and the virtual machine is written in ANSI C.
- Text Co-occurrence Network Analsis for The Hunger Games: Completed a text analysis project where implemented text co-occurrence network to visualize the relationship between the main characters in the novel The Hunger Games. Written the program in Python and used packages including nltk, pandas, matplotlib and wordcloud. Plotted the network by using Gephi.