Yanjie He

LinkedIn: https://www.linkedin.com/in/yanjiehe/

Github: https://github.com/YanjieHe

EDUCATION

• The George Washington University

Master of Science in Data Analytics (Computer Science Track)

Washington D.C., USA
Anticipated July. 2020

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• 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/JavaScript

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

• Database: : MySQL, SQL Server, Sqlite3

• Frameworks: : Qt5, React.js, Spring MVC, Spark

Research Collaborator, Machine Learning Engineer

• Tools & Technologies: Linux, Recommender System, Compiler Design, Gephi, Git (Github)

EXPERIENCE

• George Washington University

Washington D.C., USA

Oct 2018 - Expected Feb 2019

o Project Title: Artificial Intelligence and User Behavior for Robust Near Real-Time Recommendations

- o Position: Group research collaborator for Dr. Benjamin Harvey, faculty of the George Washington University
- Recommender System: Designing a graph-based recommender system, utilizing collected user behaviors data.
- Software Development: Developing the recommender system using C++, Java, and Python. Implementing machine learning algorithms to build robust models. Using Github for collaborative development and version control.
- Information Retrieval: Applying methods in Natrual Language Processing to explore information from user activities in the browser.

• 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, applying mathematical and statistical techniques to novel data.
- o Analytical Programming: Reviewing academic papers. Using Python and R to clean the dataset and run the models.

• Kantar Media CIC

Shanghai, China

Data Engineer Intern

July 2016 - Feb 2017

- Data Collection: Collected online comments with team members utilizing Python, and provided data cleaning solution using C# and SQL Server for Chanel APAC project.
- Data Visualization: Developed Data Visualization Solution in C# for GroupM television show, to plot Venn Graph according to given data automatically.
- Text Mining System: Developed text mining system in C# 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 was processing 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.
 - 1. Used jieba package in **Python** to cut the Chinese sentences into separated words.
 - 2. Selected words as features that are important for classification by χ^2 test.
 - 3. Applied the logistic regression to classify the sentiment of user comments.

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 Analysis 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.