

XIUYI QIAN

Tel: (347) 988-8265 | Email: qianxy23@outlook.com

EDUCATION

Emory University

Atlanta, GA

BSc in Quantitative Science and Informatics, GPA: 3.924/4.0

Expected May 2022

Relevant Coursework: Data Structure and Algorithms (Java), Data Science Computing (Python), Linear Algebra, Computer Science Practicum(JS), Computer Organization (Assembly language), Database System (SQL/PHP)

Rensselaer Polytechnic Institute

Troy, NY

Double major in Mathematics & Economics, GPA: 3.73/4.0

Transferred May 2020

Relevant Coursework: Data Structures(C++), Intro to Data Mathematics(R), Embedded Control(C)

Honors: Dean's Honor List for Fall 2018, Spring & Fall 2019, Spring 2021

PROFESSIONAL EXPERIENCE

Sina News

Shanghai, China

Algorithm Intern

Jun. - Aug. 2021

- Established a two-tower deep neural network model to acquire the characteristics of Sina News users and predict their possibility to read each news articles
- Optimized the model to attain better recommendation accuracy via calculating the loss function, and utilized the portrait feature algorithm experiment on the notional words to identify the word with the biggest weight
- Executed effective solutions to minimize cold start problems, including applying popularity-based strategy, narrowing down user interest based on the analysis of their personal information and social network, etc.

Frost & Sullivan

Shanghai, China

Data Analyst Intern

Dec. 2019 - Jan. 2020 & Dec. 2020 - Feb. 2021

- Participated in the IPO project of a medical device logistics company (Derom Medical) and a lung disease treatment company (LePu Medical)
- 1) DeRom:
- Conducted interviews with competitors, industry experts, executives and end-users to collect primary data for industrial market segmentation analysis, drafted an analysis report and build simple regression model to fully describe the companies' competitive advantages, future growth and other investment highlights
- 2) Lepu Medical:
- Searched and reviewed literature on diagnostic criteria and medication of lung cancer, extracted data about the diagnosis and evaluation of lung cancer and summarized all diagnostic criteria and medication in a medical atlas

Bank of Communications

Shanghai, China

Data Analyst Intern

Jun. - Aug. 2019

- Collected information for the Strategic Marketing Department to conduct industry research, and performed analysis to support the decision-making in buying corporate bonds

RESEARCH & PROJECTS

Research on Predicting PM2.5 Concentration| Transfer Learning

- Applied changed Boosting Algorithm and integrated data of land, meteorology and AOD to make national scale prediction from regional data

Amazon Translation Project | Python (AWS SageMaker)

- Tested the efficiency of Amazon Translate in translating sample text by applying AWS Comprehend to find out the completeness and accuracy of the key information retained in the translation from Amazon Translation

SWOL Project| JavaScript

- Created a webpage that enables customers to enter their daily workout routine manually; applied machine learning algorithms to predict calories consumption and provide suggestions such as recommending sports items and resting tips

CHEMS-R-US Project | RStudio

- Built a binary classification model to predict ready biodegradation of chemicals using molecular descriptions, and trained the predictive model on the training dataset to predict the classification of 400 newly developed molecules

Netflix Movies Databases Project | RStudio

- Created a regression model to examine the popularity of various types of movies in relation to market factors

School Class Database and Website Design | PHP/HTML, SQL

- Designed a learning management system that allows students and faculty to manage grades and discuss questions

TECHNICAL SKILLS

Programming Languages: Java, C++, C, PHP, Python, HTML, JavaScript, SQL, MongoDB