Qiren(Steven) Wang

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Education

Rutgers University | New Brunswick, NJ **Expected Graduation: May - 2022**
M.S. in Data Science
University at Albany, SUNY | Albany, NY **Sep 2016 - May 2020**
B.S. in Computer Science
Chongqing University of Posts and Telecommunications | Chongqing, China **June - 2020**
B.S. in Software Engineering

Relevant Experience

School of Public Health, Rutgers University **Aug - Oct 2021**
Research Assistant - Alzheimer's Disease: R, Alzheimer's Disease Dataset

- Processed biological seq-RNA data (Seurat object format). Plotted log(mean) and log(variance) and built LOESS regression model on transformed data to get residual matrices.
- Plotted boxplots with unhealthy and healthy groups for each gene, used several tests to find significant expressions of genes which contributed to disease.

Department of Statistics, Rutgers University **Sep - Dec 2020**
Grader - 01:960:285:04 Intro Stat for Business

Professional Experience

Data Analyst - Imagine Software Inc. | New York, NY **June - Aug 2021**
***Real-time, Institutional-grade Portfolio and Risk Management Software*:** Python, JavaScript, C++, RESTful API, VS Code

- Extracted the financial data from internal clients' real-time database to developed new features for Portfolio and Risk Management User Interface.
- Developed new operation apps including portfolio management, security operations, futures management, etc.
- Researched, designed and developed a new order aggregation API for Imagine Software architecture and highly appraised by senior manager. New API addressed overwrite order aggregation function for every new requirement and reduced management response time by 60%.
- Implemented and tested apps designed by Python and JavaScript with RESTful API for client version.

Backend Developer - iFlytek Co., Ltd | China **June - Aug 2019**
Music & TV Live Streaming (Migu Music): Java Web**,** Spring MVC, MySQL, Maven, Tomcat, IntelliJ IDEA

- Planned, designed and developed a new summer singing competition. Released in music part of Migu Music App.
- Developed multiple features for Singing Competition Management System, includes competition announcements, activity information, competitors management, champion results management, audience voting, lottery and rewards management.
- Enhanced customer satisfaction level to maximum in seasonal summer activity. Number of active consumers were kept at 100,000 per day during the activity.

Data Scientist - Sefon Software Co., Ltd | China **July - Sep 2018**
Big Data and Artificial Intelligence Management System: Python, Hadoop, Selenium3, Unittests, PyCharm

- Preprocessed a large amount of raw data collected from clients. Designed multiple functions to split the document to the individual token to format pattern. Removed and deleted useless characters, punctuation issues, unreasonable words, etc. Created a lexicon with filtering stop words and transform the documents to vectors before model building.
- Used Naïve Bayes Algorithm to build a classification model to discriminated documents were sensitive or non-sensitive. Optimized the model using Laplace Smoothing and Log-transformation, addressed zero issue and overflow issue during the probability calculating. The finalized model improved the accuracy by 20%.
- Developed unittests-automated testing for different browsers at Selenium3 environment. Mainly used Xpath to locate testing elements and created unittests including textual elements testing, page graphical elements testing, values testing, etc.

Projects

Tweets Sentimental Analysis **Sep - Dec 2021**

- Built a sentimental classification model Retrieved labeled training data of 31,000 lines through Kaggle.
- Designed functions to remove and substitute special characters, unnecessary emoticons, numbers, etc.
- Utilized three models (Naïve Bayes, RNN, Bidirectional LSTM) to predict the sentimental category of a text sentence. Evaluated the three models and selected the best performance model Bidirectional LSTM out of them with accuracy 0.70.

The accuracy of Naïve Bayes Model achieved 0.61 and the accuracy of RNN Model reached 0.68.

Credit Risk Modeling **May - Aug 2020**

- Built Logistic Regression model to predict whether a person will be default.
- Binned the data and make sure the data was monocle. Calculated WOE and IV to select significant features for Logistic Model Building.
- Evaluated the model performance using AUC (Area Under the ROC Curve) and KS (Kolmogorov-Smirnov Test).

Technical Skills

Python | Java | R | C++ | C | SQL | JavaScript | Html | MySQL | Linux | Hadoop | Spark | Flask | MongoDB | Spring MVC | Selenium3 | Tomcat | MapReduce | Microsoft Office Suite | Microsoft Remote Desktop | AWS | Google Could | XShell5 | Visual Studio Code | Sublime | Git | IntelliJ IDEA | PyCharm | RStudio | SQL Server 2008 R2 | Visual Studio | Monte Carlo Simulation

Honors and Activities

Student Assistant, CQUPT	**2016-2020**
Distinguished Student, Dean's List, SUNY at Albany	**2018-2020**
Best Exchange Student Scholarship, Dean List, SUNY at Albany (Awarded $3000)	**2019-2020**
Student Award of Excellence, CQUPT (Awarded to 10 students per year)	**2017, 2018**
Volunteer, the National University Game, China	**2018**
Outstanding individual, CQUPT	**2017**