QI JIN

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EDUCATION

Northeastern University GPA: 3.9/4.0 **Boston, MA**
Candidate for Master of Science in Data Analytics Engineering Sep 2018 – Dec 2020
Core Courses: Database Design, Algorithm, Data Mining, Machine learning, Deep Learning, Data Visualization

Chengdu University of Information Technology (CUIT) **Chengdu, CHINA**
Bachelor of Engineering in Electronic and Information Engineering - Signal Processing Sep 2010 - Jun 2014

SKILLS

Programming Skill: Python, HTML, JavaScript, CSS, R, SQL, C, Matlab
Others: A/B Testing, AWS, Azure, PyCharm, Tableau, Excel, PowerBI, Kronos, Git, Jupyter, RStudio, Microsoft SQL server

WORK EXPERIENCE

Wayfair LLC **Boston, MA**
Data Analyst Co-op - Transportation Finance July 2019 - Dec 2019

- Troubleshooted unplanned accessorial charges issue for Wayfair supply chain network, performed in-depth data mining, cleaning and statistical analysis with SQL, R and Excel to find root causes; Resolved issues and reduced 67% of current cost from $42,000 per week to $14,000 per week
- Minimized discrepancy between actual and estimated transportation cost by building automatic tracking scripts and Excel dashboards; Improved accuracy of cost estimated algorithm by reducing variance from 7% to 0.5%
- Built ETL pipeline in SQL and Python to monitor information includes service codes, spot rates, pending payment requests and daily aging of orders, and notify corresponding operation teams and warehouses automatically; The program significantly improved operational efficiency by shortening processing time from 6 hours per day to 10 minutes per day and reducing 80% chances of human errors

Industrial & Commercial Bank of China (ICBC) **Chengdu, CHINA**
Account Manager and Analyst Sep 2014 - May 2018

- Collected data from branches, evaluated daily performance and tracked anomaly to prevent identity and credit card fraud
- Designed new banking operation procedures with the IT department to enhance operational accuracy from 99% to 99.8%
- Developed investment strategy for clients by conducting market performance analysis and financial product analysis; Successfully raised more than 36 million RMB investment funding from existing/new clients

Handicap International **Sichuan, CHINA**
Volunteer Sep 2011 - Jun 2014

- Designed a earthquake study and developed questionnaires to collect over 1,000 wounded people data from 4 cities hit by a magnitude 8.0 Earthquake; Performed multi-variant analysis and ANOVA analysis via SPSS to understand relationship between physical rehabilitation level, psychological status and community culture; Provided study results to Handicap International, WHO and local hospitals as additional resource for future earthquake aiding arrangement

ACADEMIC PROJECTS

News Event Auto Extraction **2020 iFLYTEK A.I.**
Jun 2020 - Aug 2020

- Designed NLP neural networks to efficiently detect events (trigger, subject, object, time, location) in a small unstructured Chinese news dataset with only 5758 sentences
- Implemented N-Triples and attention mechanism to preprocess unstrucetured data and improve multi-events detecting abilities in a single sentence

COVID-19 Tracking & Prediction Web-app (http://www.covidmonitor.cc) **NEU, Boston**
April 2020 - May 2020

- Web scrapt COVID-19 cases from multi-sources including WHO & CDC daily, designed relational database for data upload and storage in Azure
- Built a end-to-end web app hosted on AWS EC2 to monitor COVID-19 cases in the real time

CareerVillage.com Database Design **NEU, Boston**
Feb 2019 - Mar 2019

- Designed a database of frequent asked questions about career from students, developed a Entity Relationship Diagram to clarify the process
- Web scrapt answers from Google and stored in the database using SQL Server

3D Reconstruction of Nuclear Magnetic Resonance (NMR) Image **CUIT, China**
Sep 2013 - Jun 2014

- Optimaized algorithm for resoring 3D image to HD status, overhauled image quality by 15% compared with older algorithms

Machine Learning Theory and Coding Project (https://github.com/uttgeorge/Machine-Learning-Models) **NEU, Boston**

- A instruction project including in-depth introduction of machine learning and models built from scratch in python