

Guangji (G) Tang

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EDUCATION

Brandeis International Business School

Waltham, MA

Candidate for Master of Science in Business Analytics (STEM-Designated)

08/2022 - 12/2023

Relevant Coursework: Applied Econometrics with R, Foundations of Data Analytics, Information Visualization

Peking University, School of Mathematical Sciences

Beijing, China

Bachelor of Science in Information and Computing Science

09/2018 - 07/2022

Relevant Coursework: Artificial Intelligence, Foundation of Machine Learning, Intro to Database System, Digital Image Processing, Digital Signal Processing, Data Structure & Algorithm, Analysis & Design of Algorithms, Programming Techniques and Methodology

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, MATLAB, C++, Julia

Computer Software: Advanced Microsoft Excel, Tableau

Analytics: Machine Learning, Convolutional Neural Network, Data Visualization, Predictive Modeling, Data Mining

WORK EXPERIENCE

China Data Analysis Committee

06/2021 - 08/2021

Assistant Algorithm Intern

Beijing, China

- Conducted horizontal analysis to compare the data analysis platforms in big data industry, providing valuable insights and recommendations
- Preprocessed and cleaned raw data sets, improving their applicability and enabling more accurate analysis
- Tested and enhanced the machine learning algorithm library using Python, enabled the use of a constraint on the depth of the decision tree, preventing overfitting and limiting the complexity of the model.

China Unicom Big Data Co., Ltd

01/2020 - 03/2020

Assistant Algorithm Intern

Beijing, China

- Introduced pre time domain segmentation of speech recognition atomic algorithms; reduced time complexity and improved recognition accuracy using knowledge of Fast Fourier transform
- Used Python to help build a traffic video intelligent analysis system for the Beijing Municipal Transportation Department and developed the municipal traffic perception analysis functions
- Collaborated with the team to optimize and improve face recognition atomic algorithms

Huatai Life Insurance Co., Ltd.

08/2019 - 09/2019

Actuarial Intern

Beijing, China

- Conducted an analysis on the relationship between organization structure and the commission arrangement
- Collected, cleaned, and organized the company's actuarial data, past rate tables, and recent claims data

Wo Pay

01/2019 - 03/2019

Data Science Intern

Beijing, China

- Performed information visualization on real-time data and created alerts for warning of critical activities
- Coordinated with team of four to assess the overall cyber security framework, made recommendations based on the results of static and penetration tests, drafted research reports based on historical data

ACADEMIC PROJECT

Peking University

Beijing, China

Bachelor's Thesis

12/2021 - 06/2022

- Designed a convolutional neural network frame based on the combination of the features extracted from spectrograms and artificial features
- Applied transfer learning to train the model on the MagnaTagATune dataset
- Reached a higher classification accuracy rate of 93.37%

ACTIVITIES/SKILLS

Volunteer: Taught math in rural area in China for over 150 hours; Advanced math tutoring at Peking University

Languages: Chinese Mandarin (Native), English (Proficient)