LILIAN (JIACHEN) GONG

jgong3@cs.cmu.edu | (412) 509-6228
linkedin.com/in/jiachen-gong-4770b717a/

EDUCATION

Carnegie Mellon University
School of Computer Science
M.S.—Educational Technology
and Applied Learning Science
August 2020

Peking University
Bachelor of Law — Department
of Sociology
July 2018

SKILLS

Data Analysis
Statistics/Regression Modeling
Machine Learning
Python, R, SQL
Pandas
Gephi

UX/LX Research
Cognitive Task Analysis
Rapid Prototyping
Curriculum Evaluation

HONORS
Wu-Si Scholarship
Academic Excellence Award

RELEVANT COURSES
Machine Learning
Data Structure and Algorithm
Linear Algebra
Probability & Statistics
Personalized Online Learning

RESEARCH EXPERIENCE

NLP Emotion Detection Project   CMU, Pittsburgh
Build up NLP system from scratch based on Logistic Regression

Machine Learning Course Work   *10/2019-11/2019*

- Extracted features from raw data of movie review text into feature vector using bag-of-word
- Build up Logistic Regression model from scratch to detect emotions from movie review with the accuracy of 98.99% in training set

Student Social Network Project   Peking University, Beijing
Create the first PKU Student Social Network Model and Department Social Network Model

Lead Research Assistant   *09/2018-07/2019*

- Predicted friendships among 12,948 undergraduates from 27 departments exploring 2,800,000 student records using Python Pandas
- Identified 29,627 pairs of possible friendships with the raw accuracy of 84.79%

Body Dimension Data Analysis Project   UCL, London
Explore the Relationship between Height and 21 Body Dimensions

Lead Research Assistant   *07/2018-08/2018*

- Developed and compared machine learning models using linear regression and random forest models using R
- Optimized model performance based on MSE using bootstrapping technique

WORK EXPERIENCE

Particle Media Inc.   Beijing, China
Big Data Intern   *07/2017-10/2017*

- Produced 6 data analysis projects over billions of user log data to better understand user interests
- Conducted competitive product research weekly; interviewed customers to identify pain points; proposed changes to the app focused on improving user experience

Institute of Social Science Survey   Beijing, China
CHARLS Research Intern   *05/2016-08/2016*

- Led a team of 3 in China Health and Retirement Longitudinal Study (CHARLS)
- Completed 100 qualitative interviews gathering historical data from 12 villages in a rural area of Hunan province
- Published CHARLS dataset for secondary research