CHENFENG LI

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EDUCATION

MS Statistics | University of Chicago Sep 2022 - Expected Jun 2024
Relevant Courses: Reinforcement Learning, Trustworthy Machine Learning, Generalized Linear Model
Scholarships: Tuition Scholarship of Statistics Master Program (2022, 2023)

BS Mathematics | Chinese University of Hong Kong (CUHK) Sep 2018 - Jul 2022
Major Concentration: Computational Big Data Analytics; Minor: Statistics
Scholarships and Honors: BS degree with First Class Honor (2022), Undergraduate Mathematics Scholarship (2021), College Scholarships (2019, 2022)

SKILLS and CERTIFICATIONS

Programming: Python, R, C, C++, JavaScript, PHP, SQL
Technical Skills: Machine Learning (TensorFlow, PyTorch, deep learning), Data Processing (Excel, Pandas), Data Visualization (Matplotlib, Tableau), Statistical Analysis (regression, time series, Bayesian), Databases, Algorithms
Language: English (Fluent, IELTS: 7/9), Mandarin Chinese (Native), Cantonese (Native)
Certifications: Deep Learning Specialization from DeepLearning.AI (Coursera), Google Advanced Data Analytics Specialization from Google (Coursera), Web Application for Everybody Specialization from UMich (Coursera)

WORKING EXPERIENCE

Statistical Consultant | Department of Statistics, UChicago Sep - Nov 2022
- Member of a team of five consultants. Analyzed materials from clients to discover needs. Discussed relevant details with clients online. Provided suggestions on data issues and delivered consulting report.
- Suggested logistic regression application and method of grouping the patient data for a study from UChicago Medicine about the impact of a COVID medication on ventilation.
- Recommended a study from UChicago BSD about the effect of HCBS on Post-Acute Care to use logistic regression without propensity score weighting.
- Advised a study from UChicago Hospital about significant of chest-to-left ventricle distance on CPR to drop highly correlated covariates. Helped determine the required sample size and linear regression models.

RESEARCH EXPERIENCE

Project Leader | Department of Statistics, UChicago Apr - May 2023
- Topic: Robustness to Spurious Correlations via Distributionally Robust Optimization (DRO). Reviewed the theory of DRO, built and evaluated a DRO neural network model, compiled reports.
- Led a team of three researchers. Communicated with members and organized tasks.
- Constructed a colored MNIST dataset with spurious correlations, wrote a DRO models and applied to the dataset. Made comparison with empirical model and tested the performance in general case. Concluded that the DRO model with strong regularization properly eliminates the influence of spurious correlations.

Data Analyst | Chung Chi College, CUHK Jun - Dec 2021
- Capstone project. Topic: The current situation and feasible development direction of Chinese medicine.
- Teamwork of four fellows. Explored the public perception, professional status and problems encountered of the Chinese medicine. Raised suggestions for its development and modernization.
- Designed and distributed online and paper-based questionnaire, processed regression analysis and visualization. Concluded overall positive view, with higher perception among older, less-educated group.

Independent Researcher | Department of Mathematics, CUHK Sep - Dec 2020
- Topic: A General Review of Facial Recognition Technology.
- Reviewed the theories of facial detection and recognition methods proposed in the past decades.
- Implemented a facial recognition model through Convolutional Neural Network (CNN) on Python. Achieved a prediction accuracy of 91.7% on a dataset with 2,749 images from 52 individuals.