Siqi (Sherry) Du

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EDUCATION

Harvard University Cambridge, MA
Master of Engineering in Computational Science and Engineering, GPA: 4.0/4.0 December 2022
Coursework: Data Science, Machine Learning, Advanced Scientific Computing

University of Wisconsin-Madison Madison, WI
Bachelor of Science in Computer Science, Minor in Economics, GPA: 4.0/4.0 December 2020
Coursework: Bioinformatics, Algorithms, Machine Learning, Optimization, Operating Systems, Database

INTERNSHIP EXPERIENCE

Beijing Kuaishou Technology Co., Ltd Beijing, China
Data Analytics Intern March 2021 – August 2021

- Collected 28 features of live streamers and applied XGBoost to construct a model for identifying inferior streamers, achieving an accuracy rate of 78.7% and a recall rate of 81.5%.
- Proposed a sampling method stratified by view counts of live streams using SQL to analyze inferior live streams.
- Determined characteristics of specific types of inferior live streamers based on percentile differences in features with ordinary streamers, which helped to identify different types of inferior streamers (best accuracy rate: 81.3%)

RESEARCH EXPERIENCE

University of Wisconsin-Madison, **Informatics Skunkworks Group** Madison, WI
Research Intern Sept 2019 – August 2020
Project: Prediction of Materials Properties with Machine Learning Methods

- Performed model selection and hyper-parameter optimization using Nested Cross-Validation.
- Assessed prediction uncertainty by estimating prediction errors of Neural Network models.
- Improved Python package called Materials Simulation Toolkit for Machine Learning (MAST-ML).

University of Wisconsin-Madison, **Lee's Lab** Madison, WI
Independent Researcher June 2019 – Sept 2019
Project: Fairness Constraints Design on Classification Problems

- Selected "Disparate Impact" and "Disparate Mistreatment" as two notions of fairness and generated a fairness constraint using covariance for each notion respectively.
- Built logistic regression classifiers in Python by minimizing classifier loss function under the fairness constraints.

LEADERSHIP & ACTIVITIES

Women in Science & Engineering Organization Madison, WI
Undergraduate Representative Sept 2019 – June 2020

- Taught workshops about Linux Basics to 120-150 students; organized research seminars weekly.

TECHNICAL SKILLS

Languages: English (Fluent), Mandarin (Native)
Programming: Java, C, C++, Python, SQL, R, MATLAB, LaTeX
Operating Systems: Windows 10 / 8, MAC OS and Linux