Rosie Zou

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Education

University of Waterloo

Honours B.CS
Data Science Option
Graduation: April 2019

Technical Skills

Programming

R, Python, Java, C, C++, Stata, SQL

Libraries & Frameworks

Keras, pandas, numpy, WEKA, scipy

Tools

Sketch
Adobe InDesign

Business Skills

Communication

Business Writing
Digital Marketing
Public Speaking

Foreign Languages

Fluent Chinese
Advanced French
Advanced Japanese
Beginner Spanish

Misc. Projects

- 8 hackathon projects from F15 to F17
- Main role on the team was ML algo design
- Mostly AR & web apps
- Full details on devpost.com/rosiezou

Work Experience

Research Assistant, University of Waterloo — May - Aug 2017

(Part-time: Sep 2017 - Pres.)

- Supervised by Statistics Professor Matthias Schonlau
- Created a Stata plugin that implements all functions from the Random Forest class in the WEKA library, as a part of a long-term NLP research project
- Finished first draft of paper available at www.rosiezou.com
- Plugin distributed to all Stata users on www.schonlau.net/stata/
- All source code available upon request

Equity Trading Intern, TD Securities — Apr - Dec 2016

- Analyzed and visualized TD historic trades and order routing trends
- Researched various financial databases to compile market reports
- Regularly conducted research and data analysis used for marketing
- Re-worked latency calculation script used for performance analysis

Data Projects

CSEye — March - Apr 2017

- STAT 441 W18 Group Final Project (4-people group)
- Designed and implemented new CNN arch. for face verification
- Features a new proximity scoring method using weight sharing
- Full technical details and code on personal site and github

Multiple Imputation for Survey Data — Apr 2017

- STAT 440 W18 Group Final Project (2-people group)
- Designed and implemented new multiple imputation algorithm for analysis of latent variables in surveys with ordinal responses
- Full technical details and code on personal site and github

Financial Data Analyses — Apr 2017

- STAT 444 W18 Group Final Project (3-people group)
- Analyses and prediction of log-scaled retained earnings
- Tuned and compared three parametric and non-parametric models
- Full technical details and code on personal site and github

Waterloop — May - Aug 2017

- University of Waterloo's competitive Hyperloop team
- Software systems developer for telemetry and navigation
- Designed and created mathematical models for navigation system using IMU, optical, and photoelectric distance sensors
- Designed and implemented support vector regression models for noise reduction of raw signal data
- Co-designed state diagram for entire system
- Archive code available on personal site and github