Rosie Zou

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Education

University of Waterloo

Joint Honours Degree
B.CS + B.Math in Stats
Graduation: April 2019

Skills

Programming

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

Libraries & Frameworks

WEKA, scikit-learn, pandas,
numpy, scipy, flask

Foreign Languages

Fluent Mandarin
Advanced French
Intermediate Japanese
Beginner Spanish

Communication

Business writing
Public speaking
Investor relations
Digital marketing

Tools

Sketch
Adobe InDesign

Relevant Courses

Algorithms and Data Structure
Applied Linear Models
Introduction to Combinatorics
Logic and Computation
Mathematical Statistics
Object-Oriented Programming
Simulation of Complex Systems

Experience

Research Assistant, University of Waterloo — May - Aug 2017

- Supervised by Prof. Matthias Schonlau, School of Actuarial Science
- Wrote a Stata plugin that implements all functions from the Random Forest class in the WEKA library, as a part of a 5-year NLP research project
- Plugin scheduled to release to all Stata users in late August
- Source code available upon request at https://git.uwaterloo.ca/schonlau/randomforest

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

Associate Business Analyst, Scotiabank — Sep - Dec 2015

- Performed daily QA and updated JIRA issue log for the team
- Tracked and examined project costs for resource misallocations
- Updated heat maps and configured access rights during UAT phase

Projects

Waterloop

May 2017 - present

- University of Waterloo's competitive Hyperloop team
- Software systems developer, telemetry lead
- Designed and created mathematical models for navigation system using IMU, optical, and photoelectric distance sensors
- Designed and implemented raw data noise reduction models using support vector regression with radial basis function kernel
- Co-designed state diagram for the entire system, submitted to SpaceX for Phase II Competition
- Code available at github.com/teamwaterloop/sensors

Hackathon Projects

Sep 2015 - Oct 2016

- 7 hackathons where I designed and implemented ML algorithms
- Project areas range from mobile/web app developemnt to hardware and augmented reality
- Awards and recognitions include : Top 10 at HackMIT, Best Use of Data Visualization at DubHacks, and Capital One prize at Mhacks
- Details at devpost.com/rosiezou and rosiezou.com