Yahan Cui

Yahan has excellent logical analytical skills and is great at sourcing the reasons behind the data and proposing optimization solutions. She specializes in teamwork and can quickly establish good working relationships. Having equally developed time-management skills, she is able to work well independently and collaboratively in teams to achieve time-sensitive goals.

EDUCATION

Master of Financial Insurance
University of Toronto
2023 - 2024

BSc (Honours)
Actuarial Science & Statistics
Dalhousie University
2023

SKILLS

Technical: Python; R; AXIS; Microsoft 365

PROFESSIONAL CERTIFICATES/AWARDS

Society of Actuaries
P (Probability);
FM (Financial Mathematics);
SRM (Statistics for Risk Modelling

Dalhouse In-Course Scholarship:
2021; 2022
Ross Stewart Smith Scholarship:
2021

INTERESTS/ACTIVITIES

Sports; Hiking; Climbing;
Badminton

EXPERIENCE

Project: MFI Summer Project - UofT Jul. 2023

- As part of a team, designed insurance products for an insurance company
- Successfully calculated the premium, which makes the aggregate loss positive in a maximum of 10% of cases by simulating, predicted the monthly benefit reserves
- Planned a five-year investment by using mean-variance optimization such that the expected annual return is between 8% & 14% while also minimizing the volatility

Project: Machine Learning II Dec. 2022

Dalhousie University

- Wrote a classifier in Python to recognize handwritten digits in pictures
- Transformed the digits in the pictures into a matrix, used data from the training set, calculated the regression coefficient using gradient descent, & minimized the loss function
- Applied the resulting equations to the testing set & observed percentage of correct matches & the loss

Project: Machine Learning I Oct. 2022

Dalhousie University

- Using Python, wrote a program to divide the data into groups
- Repeated the K-means clustering until the centroid of each group did not change
- Calculated the sum of the squared distances of each data point in a group from each centroid & plot scatter plots to see how each group changes