

# Scotiabank Data Science Discovery Days

## Winter 2023

### Rules

- We require that **all work be completed by and only with your teammates**. You are welcome to consult with the professional mentors and utilize online or text resources, but please do not seek assistance from people outside of the event.
- We ask that you please use the Microsoft Teams channels provided when collaborating with team members. Our goal is to keep all of the information regarding this data set and the competition within one central place.
- The problem statement, logistics information and the dataset will all be made available on MS Teams, in your team's private channel. This can be accessed from the File Section. If you are currently not on the MS Team, please use this link to request access: [Data Science Discovery Days](#)

### Information on Mentors

- From 11:00 a.m. – 5:00 p.m. on Saturday, January 21<sup>st</sup> there will be a friendly Mentor available virtually. These mentors are UWaterloo faculty and Scotiabank professionals. They all have different areas of expertise, so if you get stuck on something, be sure to seek out assistance from one of these mentors.
- There will be a mentor drop-in channel on MS Teams that participants can use to contact a mentor. Mentors will not be monitoring their email, only this channel; if you email them, they may miss your request. The link to connect with mentors is here: [Click here to join the meeting](#)
- We encourage you to take advantage of mentor expertise. **Feel free to ask anything**. This is not an exam, but a collaborative competition. Do not expect the mentors to write code for you or do data management, etc. They are there to help point you in the right direction, but you are responsible for getting there on your own.
- Based on previous competitions, we recommend meeting with a mentor early (and often, if needed). Past students have commented that gaining guidance early on had the most impact on their ability to submit work that was of a higher quality.
- There will also be a general open Q&A channel where teams can ask questions on Wednesday, Thursday and Friday. There will also be an opportunity to meet with Mentors on Friday at our in-person Kick-Off event at 5:00 p.m. We encourage you join the kick-off session in person to check in for your team to confirm your team's participation. Check-in could also be done online through MS Teams.

## Submissions & Judging

1. Each team will be required to submit their work on Sunday, January 22<sup>nd</sup> by 12:00 p.m. (noon).
2. Submissions can be done on each team's MS Teams private channel under the 'File' section. Please put all of the information that you wish to submit into a single folder. Please name that folder with your team name ONLY. Please put individual names in the documents you submit, example, the slideshow and write-up.
3. Participants are expected to submit all four items below with following required format for file names:
  1. Prediction for the testing dataset in csv format with two columns: TRANSACTION\_ID, PROBABILITY (0-1 probability of fraud) and PREDICTION (value of 0 indicating not fraud, or 1 indicating fraud)  
  
File name format: [team\_name]\_prediction.csv
  2. Code in any format (Jupyter Notebook, R scripts, etc.)  
  
File name format: [team\_name]\_code
  3. slideshow presentation (Max 10 slides)  
  
File name format: [team\_name]\_slides.pptx/pdf
  4. Brief write-up (Max 500 words) explaining your team's findings  
  
File name format: [team\_name]\_brief.pdf
4. Each team's submissions will be assessed by the judges (UWaterloo and Scotiabank professionals). The judges will select the top six (6) teams to move on to the presentation round. Team must have members attend in person to qualify for Top 6 winning teams
5. Presentations are scheduled to be announced at 2:00 p.m. on Sunday, January 22<sup>nd</sup>, and presentations will begin after announcement. Please prepare your presentation ahead of time.
6. Each team will have 10 minutes for their presentation time slot; 6 minutes will be devoted to the presentation itself, and 4 minutes will be devoted to Q&A.
7. Once all of the presentations are complete, judges will deliberate and decide on the rankings. Monetary prizes for the top six teams will be awarded as follows: \$2000 for the 1<sup>st</sup> place team, \$1500 for two 2<sup>nd</sup> place teams, and \$1000 for three 3<sup>rd</sup> place teams. Please note that all awards will first be applied to your Quest account if you have an outstanding balance. Otherwise, either a cheque or direct deposit will be issued for your individual award amount.
8. The best team will be invited to have dinner with Scotiabank Leadership team after the competition at 5pm Sunday, January 22<sup>nd</sup>