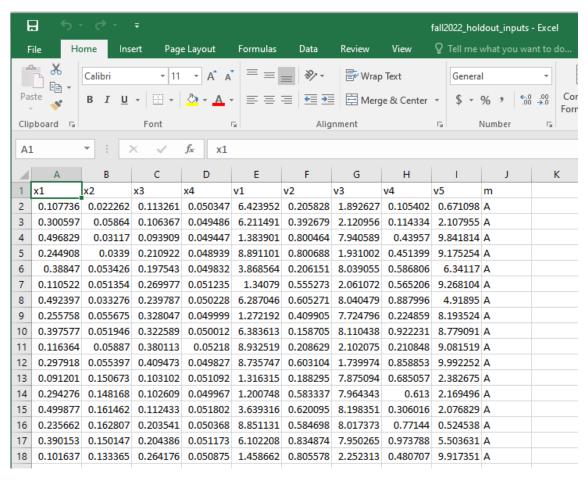
#### INFSCI 2595 Final Project

Fall 2022

**Holdout Test Set** 

#### A holdout test set has been provided on Canvas

The input (column) names are the same as those in the training set



The holdout test set does NOT include the output!!!!!!

You must predict the logit-transformed continuous response and the binary outcome using this test set

• You must select 1 regression model and 1 classification model.

You must predict the continuous output.

You must predict the probability of the event.

 You must classify the binary outcome assuming a default threshold of 0.5.

#### Organize the test set predictions

- Compile the predictions into a dataframe with 4 columns:
  - id the row index (use tibble::rowid to column () function)
  - y the prediction for the logit-transformed continuous response
  - outcome the classified outcome
    - Must have values event and non event
  - probability the predicted probability of the event
- Save the dataframe to a CSV file.
  - Can save using the readr::write\_csv() function

#### Example CSV file of the predictions

 I created some example models (maybe not that great), and saved the predictions from those models accordingly.

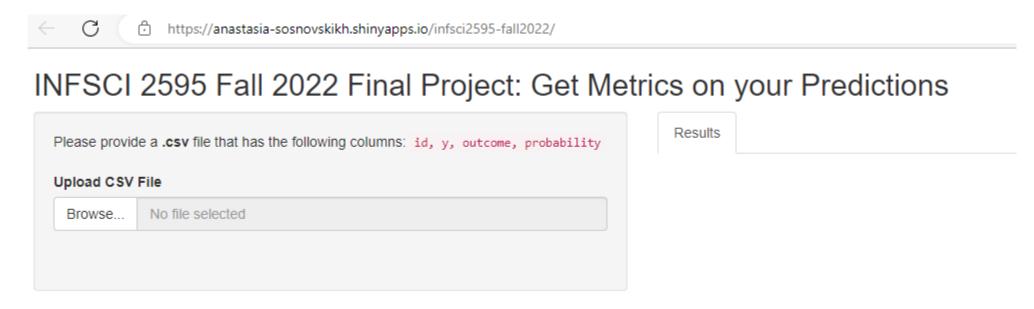
 The CSV file MUST have these 4 columns with these exact names.

4	А	В	С	D
1	id	y	outcome	probability
2	1	1.40773	non_even	0.194182
3	2	-0.09687	non_even	0.260732
4	3	-1.25394	event	0.610336
5	4	-0.34606	event	0.532572
6	5	-1.49484	event	0.744715
7	6	0.74325	non_even	0.289444
8	7	-0.92859	event	0.596826
9	8	-1.12712	event	0.723652
10	9	-1.37852	event	0.753914
11	10	0.283609	non_even	0.398751
10	44	2.01521		0.050013

# Your predictions will "scored" by uploading the predictions to a website

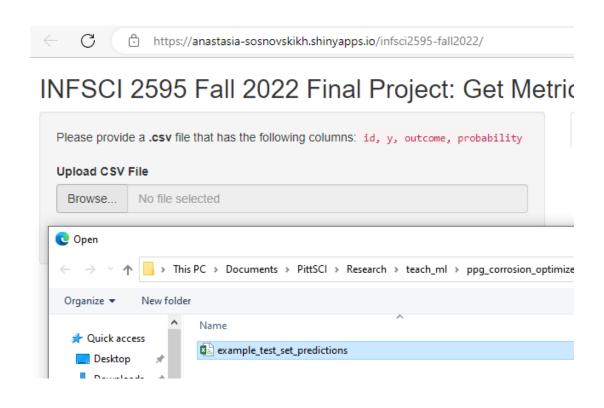
• Go to the following R Shiny app.

The landing page looks like:



# Your predictions will "scored" by uploading the predictions to a website

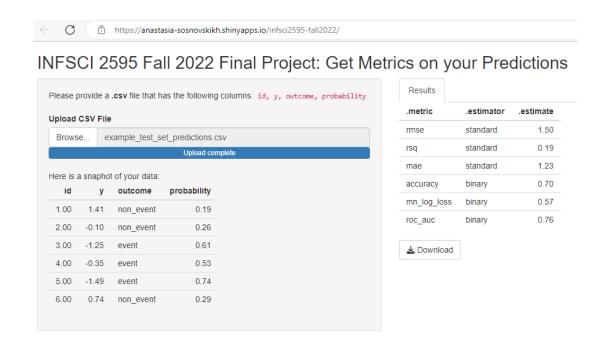
- Go to the following R Shiny app.
- Select the Browse button and upload your CSV file of predictions to the website.
- I named my example CSV file example\_test\_set\_predictions.csv
- You may name your CSV file whatever you want.



# Your predictions will "scored" by uploading the predictions to a website

 Once uploaded the performance metrics on the hold-out test set will be shown to you.

 Press the Download button to save the performance metrics to your computer.



# You MUST submit the downloaded CSV file as part of your final project submission

 The downloaded CSV file must be uploaded to Canvas along with all of your rendered HTML files and source .Rmd files.