

Question 1 of 11: Using regressor-data-asgn2.csv, what is the Pearson correlation between data and predicted (model)? (Round to three significant digits; e.g. 0.24675 should be written as 0.247) (Hint: this is easy to compute in Excel)

0.705

Question 2 of 11: Using regressor-data-asgn2.csv, what is the RMSE between data and predicted (model)? (Round to three significant digits; e.g. 0.24675 should be written as 0.247)

0.242

Question 3 of 11: Using regressor-data-asgn2.csv, what is the MAE between data and predicted (model)? (Round to three significant digits; e.g. 0.24675 should be written as 0.247)

0.202

Question 4 of 11: Using classifier-data-asgn2.csv, what is the accuracy of the predicted (model)? Assume a threshold of 0.5. (Just give a rounded value rather than including the decimal; e.g. write 57.213% as 57)

0.732

Question 5 of 11: Using classifier-data-asgn2.csv, how well would a detector perform, if it always picked the majority (most common) class? (Just give a rounded value rather than including the decimal; e.g. write 57.213% as 57) (Hint: this is easy to compute in Excel)

0.511

Question 6 of 11: Is this detector's performance better than the base rate, according to the accuracy and the frequency of the most common class?

☒ A) Yes

Question 7 of 11: What is this detector's value for Cohen's Kappa? Assume a threshold of 0.5. (Just round to the first two decimal places; e.g. write 0.74821 as 0.75).

0.46

Question 8 of 11: What is this detector's precision, assuming we are trying to predict "Y" and assuming a threshold of 0.5 (Just round to the first two decimal places; e.g. write 0.74821 as 0.75).

0.95

Question 9 of 11: What is this detector's recall, assuming we are trying to predict "Y" and assuming a threshold of 0.5 (Just round to the first two decimal places; e.g. write 0.74821 as 0.75).

0.47

Question 10 of 11: Based on the precision and recall, should this detector be used for strong interventions that have a high cost if mis-applied, or fail-soft interventions with low benefit and a low cost if mis-applied?

- ☒ A) STRONG
- ☐ B) FAIL-SOFT

Question 11 of 11: What is this detector's value for  $A'$ ? (Hint: There are some data points with the exact same detector confidence, so it is probably preferable to use a tool that computes  $A'$ , such as <http://www.columbia.edu/~rsb2162/computeAPrime.zip> -- rather