

DTSC670: Foundations of Machine Learning Models

Assignment 4

Directions

Complete the Assignment_4.ipynb file; further directions are located in that file.

Below is a simple rubric indicating how you will be graded:

Clarity and Comments 10%

How organized is your notebook? Do you have enough comments? Are the meanings of the computations clear?

Custom Transformer 50%

Were you able to successfully create the custom transformer? Does your transformer work both if you wanted to drop the x4 column and if you did not (works if the input parameter is either 'True' or 'False')?

Numeric Pipeline 10%

Were you able to successfully create the transformation pipeline for numeric data?

One-Hot Encoding 10%

Were you able to successfully one-hot encode the categorical feature?

Full Pipeline 10%

Were you able to successfully combine both the numeric pipeline and the One-Hot Encoder within a Column Transformer to create the full data transformation pipeline?

Final Answer 10%

Were you able to successfully compute the correct final answer?