## Name :

**NetID**:

## Please specify whether each statement is True or False:

1. We can build unsupervised models when we lack labels for the target variable in the training data: \_\_True\_\_\_\_
2. For supervised learning, the value of the target variable is known when the model is deployed: \_False\_
3. When training a supervised learning model, the value of the target variable is known when the model is developed: \_\_True\_\_\_
4. Data Science applications are only useful when automated in a large technology system: \_\_False\_\_
5. As long as data is available, Data Scientists can always create value for their organization: \_\_False\_\_
6. It is sometimes necessary to engage in a sub-optimal decision policy to collect the necessary data required for modeling: \_\_True\_\_
7. Data Scientists should not invest resources learning about the problem domains they are modeling: \_\_False\_\_
8. Data Science problems are often best solved by breaking the problem down into well defined sub-problems: \_\_\_True\_\_
9. A “target variable” and a “label” commonly refer to the same thing in the Data Science lexicon: \_\_True\_\_
10. A data “leak” is a situation where good predictors can be identified in a data set: \_\_False\_\_\_