Feature preprocessing and generation with respect to models **TOTAL POINTS 6** 1.Question 1 What type does a feature with values: ['low', 'middle', 'high'] most likely have? () Datetime (X) Ordinal (ordered categorical) () Categorical () Coordinates () Numeric () Text 1 point 2.Question 2 Suppose you have a dataset X, and a version of X where each feature has been standard scaled. For which model types training or testing quality can be much different depending on the choice of the dataset? (X) Neural network (X) Nearest neighbours () GBDT () Random Forest

(X) Linear models

2 points

3.Question 3 Suppose we want to fit a GBDT model to a data with a categorical feature. We need to somehow encode the feature. Which of the following statements are true?
() Label encoding is always better to use than one-hot encoding
() One-hot encoding is always better than label encoding
(X) Depending on the dataset either of label encoder or one-hot encoder could be better
1 point
4.Question 4 What can be useful to do about missing values?
(X) Nothing, but use a model that can deal with them out of the box
() Impute with feature variance
() Apply standard scaler
(X) Impute with a feature mean
(X) Reconstruct them (for example train a model to predict the missing values)
(X) Replace them with a constant (-1/-999/etc.)
(X) Remove rows with missing values
2 points
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