Feature preprocessing and generation with respect to models

Total points 6 1. What type does a feature with values: ['low', 'middle', 'high'] most likely have? 1 point O Numeric O Categorical Ordinal (ordered categorical) Coordinates O Datetime ○ Text 2. Suppose you have a dataset X, and a version of X where each feature has been standard scaled. 2 points For which model types training or testing quality can be much different depending on the choice of the dataset? ■ Nearest neighbours ☐ Linear models Random Forest ■ Neural network ☐ GBDT 3. Suppose we want to fit a GBDT model to a data with a categorical feature. We need to somehow encode the 1 point feature. Which of the following statements are true? One-hot encoding is always better than label encoding O Label encoding is always better to use than one-hot encoding Opending on the dataset either of label encoder or one-hot encoder could be better 4. What can be useful to do about missing values? 2 points ☐ Impute with a feature mean Remove rows with missing values ☐ Apply standard scaler Reconstruct them (for example train a model to predict the missing values) Replace them with a constant (-1/-999/etc.) ☐ Nothing, but use a model that can deal with them out of the box ☐ Impute with feature variance Coursera Honor Code Learn more I, Chinmay kumar Das, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account. Save draft

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