

# Feature preprocessing and generation with respect to models

Quiz, 4 questions

1  
point

1.

Suppose we have a feature with all the values between 0 and 1 except few outliers larger than 1. What can help us to decrease outliers' influence on non-tree models?

- ☐ MinMaxScaler
  - ☒ Apply **`np.sqrt(x)`** transform to the data
  - ☒ Winsorization
  - ☒ Apply rank transform to the features
  - ☒ Apply **`np.log1p(x)`** transform to the data
  - ☐ StandardScaler
- 

2  
points

2.

Suppose we fit a tree-based model. In which cases label encoding can be better to use than one-hot encoding?

- ☒ When we can come up with label encoder, that assigns close labels to similar (in terms of target) categories
  - ☒ When categorical feature is ordinal
  - ☒ When the number of categorical features in the dataset is huge
- 

1  
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3.

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If target dependence on the label encoded feature is very non-linear, i.e. values that are close to each other in the label encode feature correspond to target values that aren't close.



When the feature have only two unique values

1  
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4.

Suppose we have a categorical feature and a *linear* model. We need to somehow encode this feature. Which of the following statements are true?



Label encoding is always better than one-hot encoding



One-hot encoding is always better than label encoding



Depending on the dataset either of label encoder or one-hot encoder could be better



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