## Feature preprocessing and generation with respect to models

1 point

## **TOTAL POINTS 5**

Apply np.log1p(x) transform to the data

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?	
	StandardScaler	
	Apply rank transform to the features	
	MinMaxScaler	
	Apply np.sqrt(x) transform to the data	
	✓ Winsorization	

2.	Suppose we fit a tree-based model. In which cases label encoding can be better to use than one-hot encoding?	2 points
	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	
3.	Suppose we fit a tree-based model on several categorical features. In which cases applying one-hot encoding can be better to use than label-encoding?	1 point
	When the feature have only two unique values	
	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.	

Suppose we have a categorical feature and a *linear* model. We need to somehow encode this feature. Which of the point 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