Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 70%. We keep your highest score.

Next item →

1.	Which scaling approach converts features to standard normal variables?	1/1 point
	○ MinMax scaling	
	Standard scaling	
	O Nearest neighbor scaling	
	O Robust scaling	
	 Correct Correct. Standard scaling converts variables to standard normal variables. 	
2.	Which variable transformation should you use for ordinal data?	1/1 point
	○ Min-max scaling	
	○ Standard scaling	
	Ordinal encoding	
	One-hot encoding	
	 Correct Correct. Use ordinal encoding if there is some order to the categorical features. 	
3.	What are polynomial features?	1/1 point
	They are higher order relationships in the data.	
	They are represented by linear relationships in the data.	
	They are logistic regression coefficients.	
	They are lower order relationships in the data.	
	⊘ Correct	
	Correct. Polynomial features are estimated by higher order polynomials in a linear model, like squared, cubed, etc.	
4.	What does Boxcox transformation do?	1/1 point
	It makes the data more right skewed.	
	O It makes the data more left skewed	
	It transforms the data distribution into more symmetrical bell curve	
	It transforms categorical variables into numerical variables.	
	○ Correct Correct. Boxcox is one of the ways we can transform our skewed dataset to be more normally distributed.	
	Select three important reasons why EDA is useful.	1/1 point
	To examine correlations, to sample from dataframes, and to train models on random samples of data	
	To determine if the data makes sense, to determine whether further data cleaning is needed, and to help identify patterns and trends in the data	
	To analyze data sets, to determine the main characteristics of data sets, and to use sampling to examine data	
	O To utilize summary statistics, to create visualizations, and to identify outliers	

	Correct. EDA fielps us analyze data to summanze its main characteristics.	
6.	What assumption does the linear regression model make about data?	1/
	This model assumes an addition of each one of the model parameters multiplied by a coefficient.	
	This model assumes a linear relationship between predictor variables and outcome variables.	
	This model assumes a transformation of each parameter to a linear relationship.	
	This model assumes that raw data in data sets is on the same scale.	
	 Correct Correct. The linear regression model assumes a linear relationship between predictor and outcome variables. 	
7.	What is skewed data?	1,
	Data that is distorted away from normal distribution; may be positively or negatively skewed.	
	Raw data that has undergone log transformation.	
	O Data that has a normal distribution.	
	Raw data that may not have a linear relationship.	
	 Correct Correct. Often raw data, both the features and the outcome variable, can be negatively or positively skewed. 	
8.	Select the two primary types of categorical feature encoding.	1,
	One-hot encoding and ordinal encoding	
	Cog and polynomial transformation	
	○ Encoding and scaling	
	Frequency encoding and label encoding	
	 Correct Correct. Encoding that transforms non-numeric values to numeric values is often applied to categorical features. 	
9.	Which scaling approach puts values between zero and one?	1,
	O Robust scaling	
	○ Standard scaling	
	Min-max scaling	
	Nearest neighbor scaling	
10.	Which variable transformation should you use for nominal data with multiple different values within the feature?	1,
	Ordinal encoding	
	One-hot encoding	
	Min-max scaling	
	○ Standard scaling	
	⊘ Correct	
	Correct. Use one-hot encoding if there are multiple different values within a feature.	

⊘ Correct