Name:	
Score: _	/
Quiz #2	
Part 1	
	Which of the following is a primary reason to use log transformation on a feature?
	A. To handle missing values.
	B. To linearize a non-linear relationship.
	C. To ensure all features have the same unit.
	D.  To convert a continuous feature into a categorical one.
	Answer Point Value: 2.0 points Answer Key: B
	Which feature transformation technique is commonly used to convert categorical variables into a format that can be provided to machine learning algorithms?
	A. Z-score transformation.
	B. Normalization.
	C. One-hot encoding.
	D. Box-Cox transformation.
	Answer Point Value: 2.0 points

Answer Point Value: 2.0 points Answer Key: C The parameters estimated through maximum likelihood regression of Y on X describe

A. the joint distribution of X and Y B. the conditional distribution of Y|X=x C. the conditional distribution of X|Y=y D. the marginal distribution of X

E. the marginal distribution of Y

Answer Point Value: 2.0 points Answer Key: B

L1 regularization in logistic regression tends to:

Α.

Provide probabilistic model outcomes.

В.

Make some coefficient estimates exactly zero.

C.

Lead to multicollinearity.

D.

Increase model bias.

Answer Point Value: 2.0 points Answer Key: B What does the output of a logistic regression model represent?

A.

A categorical label.

В.

The variance of the predictors.

C.

A probability between 0 and 1.

D.

A continuous value between  $-\infty$  and  $\infty$ .

Answer Point Value: 2.0 points

Answer Key: C