

# Quiz 12

⚠ This is a preview of the published version of the quiz

Started: Jun 22 at 9:14pm

## Quiz Instructions



Question 1 1 pts

What do Generalized Linear Models (GLM) have in common?

☐

Response variable  $Y$  is modeled as a linear function of  $X$ .

☐

The error terms in the regression model follows Gaussian distribution.

☐

Response variable  $Y$  follows Gaussian distribution.

☐

The conditional distribution of  $Y$  conditioned on  $X$  is an exponential family distribution.



Question 2 1 pts

Which of the following is a Generalized Linear Model (GLM)?

☐

All of them!

☐

Poisson regression.



Linear regression.



Ordinal regression.



### Question 3 1 pts

Which of the following Generalized Linear Models (GLM) is appropriate to model credit card fraud detection?



Negative binomial regression.



Linear regression.



Logistic regression.



Poisson regression.



### Question 4 1 pts

Which of the following is true about link functions in GLM?



The canonical link function can be derived from the exponential family density function of the conditional distribution of Y given X.



There is a unique link function for every GLM.



The link function is linear for GLM.



There is no link function for linear regression models.



## Question 5 1 pts

Which of the following models can be applied to classification problems?

☐

Linear regression.

☐

Poisson regression.

☐

Logistic regression.

☐

Any of them.

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