

✔ Congratulations! You passed!

Grade  
received 87.50%

Latest Submission  
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To pass 80% or  
higher

Go to next item

1. What technique models the probability of an observation falling into one of two categories, based on one or more independent variables?

0 / 1 point

- ☐ Log-odds function
- ☐ Binomial logistic regression
- ☒ Logistic regression
- ☐ Maximum likelihood estimation

✘ Incorrect  
Review [the introduction video](#).

2. A data professional calculates a logarithm of the odds of a given probability. What are they calculating?

1 / 1 point

- ☒ Logit
- ☐ Recall
- ☐ Likelihood
- ☐ Precision

✔ Correct

3. What technique estimates the beta parameters that increase the likelihood of the model producing observed data?

1 / 1 point

- ☐ Accuracy
- ☐ Precision
- ☐ Recall
- ☒ Maximum likelihood estimation

✔ Correct

4. Following the no extreme outliers assumption, when are outliers detected?

1 / 1 point

- ☒ After the model is fit
- ☐ While the model is being fit
- ☐ Either before or after the model is fit
- ☐ Before the model is fit

✔ Correct

5. What graphical representation demonstrates a classifier's accuracy at predicting the labels for a categorical variable?

1 / 1 point

- ☐ Likelihood matrix
- ☐ Logistic graph
- ☐ Logistic matrix
- ☒ Confusion matrix

✔ Correct

6. A data professional calculates precision in logistic regression results. They have 101 true positives, 63 true negatives, 4 false positives, and 2 false negatives. What is the calculation for precision?

1 / 1 point

- ☒  $101 / (101 + 4)$
- ☐  $101 / (63 + 2)$
- ☐  $101 / (101 + 63)$

☐  $(63 + 4) / 101$

☐  $(101 + 2) / 4$

☒ Correct

7. A data professional calculates accuracy in logistic regression results. They have 82 true positives, 75 true negatives, and 202 total predictions. What is the calculation for accuracy?

1 / 1 point

☐  $82 / (202 - 75)$

☒  $(82 + 75) / 202$

☐  $202 / (82 + 75)$

☐  $(202 - 82) / 75$

☒ Correct

8. A data professional calculates recall in logistic regression results. They have 145 true positives, 128 true negatives, 4 false positives, and 2 false negatives. What is the calculation for recall?

1 / 1 point

☒  $145 / (145 + 2)$

☐  $(145 + 128) / (4 + 2)$

☐  $(128 + 2) / 128$

☐  $(4 - 2) / 145$

☒ Correct