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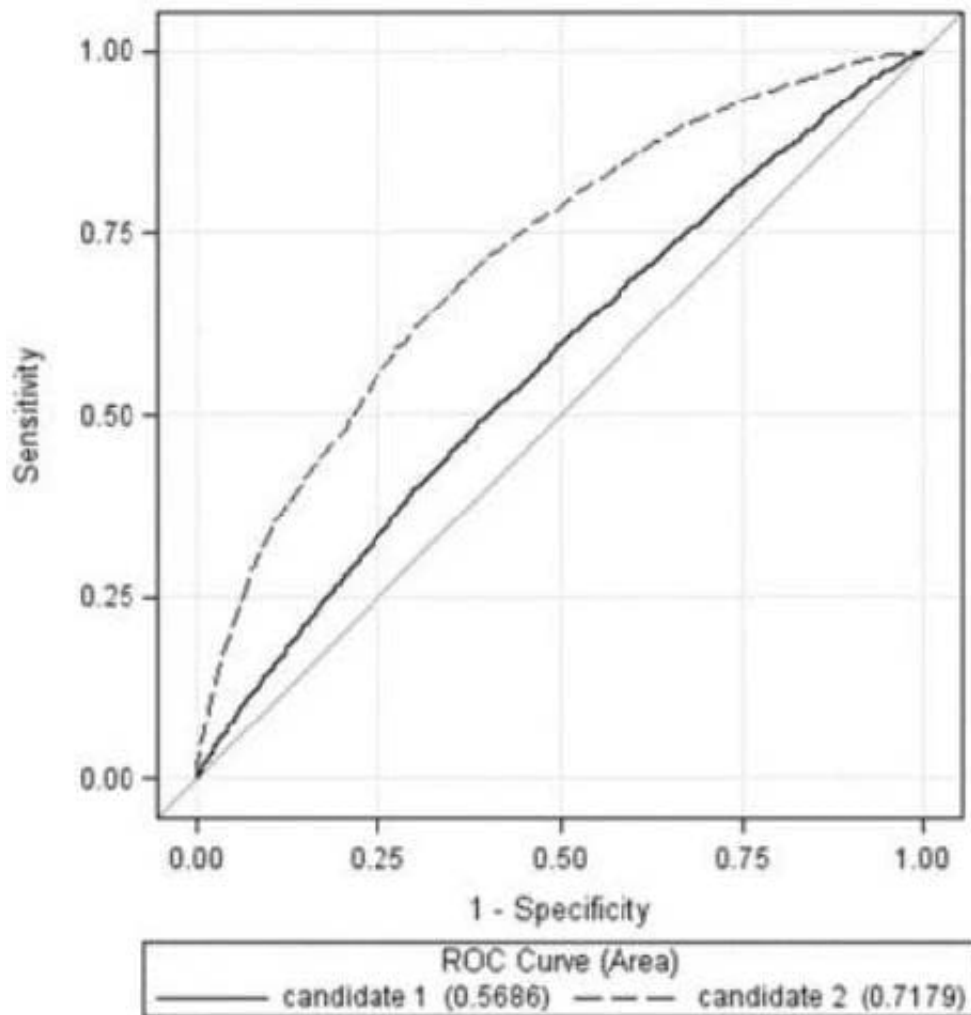
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QUESTION 1

Refer to the exhibit: Based upon the comparative ROC plot for two competing models, which is the champion model and why?

A. Candidate 1, because the area outside the curve is greater

B. Candidate 2, because the area under the curve is greater

C. Candidate 1, because it is closer to the diagonal reference curve

D. Candidate 2, because it shows less over fit than Candidate 1

Correct Answer: B

QUESTION 2

A predictive model uses a data set that has several variables with missing values.

What two problems can arise with this model? (Choose two.)

A. The model will likely be overfit.

B. There will be a high rate of collinearity among input variables.

C. Complete case analysis means that fewer observations will be used in the model building process.

D. New cases with missing values on input variables cannot be scored without extra data processing.

Correct Answer: CD

QUESTION 3

Refer to the following odds ratio table:

Odds Ratio Estimates and Profile-Likelihood
Confidence Intervals

Effect	Unit	Estimate	95% Confidence Limits	
salary	1.0000	1.142	1.083	1.220

What is a correct interpretation of the estimate?

A. The odds of the event are 1.142 greater for each one dollar increase in salary.

B. The odds of the event are 1.142 greater for each one thousand dollar increase in salary.

C. The probability of the event is 1.142 greater for each one dollar increase in salary.

D. The probability of the event is 1.142 greater for each one thousand dollar increase in salary.

Correct Answer: B

QUESTION 4

One common approach for predicting rare events in the LOGISTIC procedure is to build a model that disproportionately over-re presents those cases with an event occurring (e.g. a 50-50 event/non-event split). What problem does this present?

A. All parameter estimates are biased.

B. Only the intercept estimate is biased.

C. Only the non-intercept parameter estimates are biased.

D. Sensitivity estimates are biased.

Correct Answer: B

QUESTION 5

A researcher is planning a logistic regression to model the probability of disease occurrence. The researcher determines the rate of disease occurrence in the population is 1%.

For which of the following would this study be a candidate?

A. over fitting

B. oversampling

C. multicollinearity

D. simple random sample

Correct Answer: C

Reference: https://www.researchgate.net/topic/Logistic-Regression

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