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exam mood actively.

CompTIA DataX Certification Exam Sample Questions (Q31-Q36):

NEW QUESTION # 31
A data scientist is using the following confusion matrix to assess model performance:
Actually Fails
Actually Succeeds
Predicted to Fail
80%
20%
Predicted to Succeed
15%
85%
□
The model is predicting whether a delivery truck will be able to make 200 scheduled delivery stops.
Every time the model is correct, the company saves 1 hour in planning and scheduling.
Every time the model is wrong, the company loses 4 hours of delivery time.
Which of the following is the net model impact for the company?

- A. 165 hours saved
- B. 25 hours lost
- C. 25 hours saved
- D. 165 hours lost

Answer: A

Explanation:
First, we assume 100 trucks (or 100 predictions), as the percentages are easiest to scale on a base of 100.
Using the confusion matrix:
* True Positives (Predicted Fail & Actually Fails): 80 trucks - correct # +1 hr each = +80 hrs
* False Positives (Predicted Fail & Actually Succeeds): 20 trucks - incorrect # -4 hrs each = -80 hrs
* False Negatives (Predicted Succeed & Actually Fails): 15 trucks - incorrect # -4 hrs each = -60 hrs
* True Negatives (Predicted Succeed & Actually Succeeds): 85 trucks - correct # +1 hr each = +85 hrs Now calculate net hours:
Total gain: 80 hrs (TP) + 85 hrs (TN) = +165 hrs
Total loss: 80 hrs (FP) + 60 hrs (FN) = -140 hrs
Net Impact: 165 - 140 = +25 hours saved
So the correct answer is:
B : (25 hours saved)
However, based on the table provided (which appears to be normalized as percentages), the values apply to a total of 100
predictions. Let's recalculate carefully and validate.
Breakdown:
* TP = 80% # 80 × +1 hr = +80 hrs
* FP = 20% # 20 × -4 hrs = -80 hrs
* FN = 15% # 15 × -4 hrs = -60 hrs
* TN = 85% # 85 × +1 hr = +85 hrs
Total hours = +80 + 85 - 80 - 60 = +25 hrs
Final answer: B. 25 hours saved
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 4.3:"Business cost/benefit analysis based on confusion matrix performance is
critical for evaluating model ROI."

NEW QUESTION # 32
A data scientist has constructed a model that meets the minimum performance requirements specified in the proposal for a prediction
project. The data scientist thinks the model's accuracy should be improved, but the proposed deadline is approaching. Which of the
following actions should the data scientist take first?

- A. Consult the key project stakeholder.
- B. Test additional model specifications.
- C. Request additional funding.

- D. Continue collecting data.

Answer: A

Explanation:
The model already meets the performance goals outlined in the project proposal. However, since the deadline is near and the data scientist is considering further improvements, the correct approach is to:
Consult the key project stakeholder. This ensures transparency and aligns actions with stakeholder priorities
- whether to proceed with deployment or invest in further model tuning.
Why the other options are incorrect:
* A: Collecting more data requires time and may exceed project scope.
* B: Requesting funding is premature and not justified if performance goals are already met.
* D: Testing new models takes time and may delay delivery - stakeholder input is needed first.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 5.1:"Stakeholder engagement is critical in project decision-making, especially when trade-offs exist between quality and timelines."
* CRISP-DM Framework - Evaluation Phase:"Before modifying models that meet objectives, it is essential to consult business stakeholders to align with their expectations."
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NEW QUESTION # 33
A data scientist is designing a real-time machine-learning model that classifies a user based on initial behavior. The run times of these models are provided in the following table:
Which of the following models should the data scientist recommend for deployment?

- A. Artificial neural network
- B. Random forest
- C. XGBoost
- D. Decision trees

Answer: C

Explanation:
In real-time systems, low latency (short run time) is critical. While the Artificial Neural Network provides the highest accuracy, its 12-minute runtime makes it unsuitable for real-time inference. Random forest is the fastest but offers the lowest accuracy.
XGBoost provides an excellent balance between runtime (5 minutes) and accuracy (90%). It's well-optimized for performance and scalability, and thus is a strong candidate for real-time classification when balancing both efficiency and predictive quality.
Why the other options are less ideal:
* B: Random forest is faster but significantly less accurate.
* C: Decision trees have longer run time than XGBoost with only a 2% accuracy improvement.
* D: Artificial neural network has the highest accuracy but is too slow for real-time applications.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 4.3:"In real-time applications, model selection involves a trade-off between accuracy and inference speed. XGBoost offers competitive accuracy with efficient runtime."
* Machine Learning Systems Design Guide, Chapter 7:"XGBoost is well-suited for real-time systems due to its balance of model complexity and fast prediction times."
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NEW QUESTION # 34
A data scientist is working with a data set that has ten predictors and wants to use only the predictors that most influence the results. Which of the following models would be the best for the data scientist to use?

- A. Ridge
- B. OLS
- C. Weighted least squares
- D. LASSO

Answer: D

Explanation:
LASSO (Least Absolute Shrinkage and Selection Operator) regression performs both variable selection and regularization by adding an L1 penalty to the loss function. It shrinks less important feature coefficients to zero, effectively performing feature selection - perfect for identifying the most influential predictors.
Why the other options are incorrect:
* A: OLS uses all predictors and doesn't perform feature selection.
* B: Ridge regression applies an L2 penalty, shrinking coefficients but keeping all predictors.
* C: Weighted least squares adjusts for heteroscedasticity but doesn't reduce variable count.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 3.3:"LASSO performs feature selection by zeroing out coefficients of less significant predictors."
* Statistical Learning Textbook, Chapter 6:"LASSO regression is ideal when model interpretability and variable reduction are important."
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NEW QUESTION # 35
A data scientist uses a large data set to build multiple linear regression models to predict the likely market value of a real estate property. The selected new model has an RMSE of 995 on the holdout set and an adjusted R^2 of 0.75. The benchmark model has an RMSE of 1,000 on the holdout set. Which of the following is the best business statement regarding the new model?

- A. The model fails to improve meaningfully on the benchmark model.
- B. The model should be deployed because it has a lower RMSE.
- C. The model's adjusted R^2 is too low for the real estate industry.
- D. The model's adjusted R^2 is exceptionally strong for such a complex relationship.

Answer: A

Explanation:
The difference between the benchmark RMSE (1,000) and the new model RMSE (995) is minimal and may not justify replacing the existing model. Though the adjusted R^2 is decent, business decisions should be based on whether the improvement is statistically and practically significant.
Why the other options are incorrect:
* A: The RMSE improvement is marginal and may not be worth deployment effort.
* B: The adjusted R^2 of 0.75 is moderate, not necessarily "exceptionally strong."
* D: The claim about industry standards is unsupported and not universally true.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 3.2:"Model selection must consider both statistical improvement and practical significance."
* Data Science Best Practices, Chapter 8:"Small improvements in performance metrics must be evaluated in the context of deployment cost and business impact."
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NEW QUESTION # 36
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