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CompTIA DataX Certification Exam Sample Questions (Q68-Q73):

NEW QUESTION # 68

In a modeling project, people evaluate phrases and provide reactions as the target variable for the model. Which of the following best describes what this model is doing?

- A. Part-of-speech tagging
- **B. Sentiment analysis**
- C. TF-IDF vectorization
- D. Named-entity recognition

Answer: B

Explanation:

Sentiment analysis refers to using machine learning or NLP techniques to determine the sentiment or emotional tone behind a body of text (e.g., positive, neutral, or negative). When people provide reactions to phrases, the model is learning to associate language with subjective emotion or opinion.

Why the other options are incorrect:

- * B: NER identifies entities (e.g., locations, organizations) - not emotions.
- * C: TF-IDF is a feature engineering method, not a modeling goal.
- * D: POS tagging classifies words by their grammatical function - not sentiment.

Official References:

- * CompTIA DataX (DY0-001) Official Study Guide - Section 6.3: "Sentiment analysis models associate textual input with subjective labels, such as emotional response or polarity."
- * Applied Text Analytics, Chapter 8: "When modeling user reactions to text, sentiment classification techniques are commonly employed."

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NEW QUESTION # 69

A data scientist needs to analyze a company's chemical businesses and is using the master database of the conglomerate company. Nothing in the data differentiates the data observations for the different businesses. Which of the following is the most efficient way to identify the chemical businesses' observations?

- A. Perform analysis on all of the data and create a summary report on the results relevant to chemical operations.
- B. Ingest data from the hard drive containing the most data and present sample results on the chemical operations.
- **C. Consult with the business team to identify which sites are responsible for chemical operations and ingest only the relevant data for analysis.**
- D. Ingest the data from all of the hard drives and perform exploratory data analysis to identify which business is responsible for chemical operations.

Answer: C

Explanation:

The most efficient and practical approach is to consult the business stakeholders to understand which sites or data partitions relate to chemical operations. This avoids unnecessary processing of irrelevant data and aligns with the data science best practice of combining domain knowledge with technical methods.

Why the other options are incorrect:

- * A: Ingesting all data without guidance is time- and resource-intensive.
- * B: Analyzing all data indiscriminately can dilute the focus on chemical business specifics.
- * D: Using the largest data set arbitrarily may not reflect chemical operations and lacks targeted relevance.

Official References:

- * CompTIA DataX (DY0-001) Official Study Guide - Section 5.1: "Collaboration with domain experts and stakeholders ensures the data scientist focuses on relevant sources and minimizes inefficiency in data preparation."
- * CRISP-DM Model - Business Understanding Phase: "Clarifying project objectives with business input is key to aligning data selection with analytical goals."

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NEW QUESTION # 70

The term "greedy algorithms" refers to machine-learning algorithms that:

- A. apply a theoretical model to the distribution of the data.
- B. examine every node of a tree before making a decision.
- C. update priors as more data is seen.
- **D. make the locally optimal decision.**

Answer: D

Explanation:

Greedy algorithms make decisions based on what appears to be the best (most optimal) choice at that current moment - i.e., a locally optimal decision - without regard to whether this choice will yield the globally optimal solution.

Examples in machine learning:

* Decision Tree algorithms (e.g., CART) use greedy approaches by selecting the best split at each node based on information gain or Gini index.

Why the other options are incorrect:

* A: This refers to Bayesian updating, not greedy behavior.

* B: That describes exhaustive search, not greediness.

* C: That aligns more with probabilistic or generative models, not greedy strategies.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 4.2 (Model Selection Methods): "Greedy algorithms make locally optimal decisions at each step. Decision trees, for instance, use greedy splitting based on current best criteria."

* Elements of Statistical Learning, Chapter 9: "Greedy methods make stepwise decisions that maximize immediate gains - they are fast, but may miss the global optimum."

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NEW QUESTION # 71

Which of the following image data augmentation techniques allows a data scientist to increase the size of a data set?

- **A. Cropping**
- B. Masking
- C. Clipping
- D. Scaling

Answer: A

Explanation:

Cropping involves selecting portions of an image to create multiple training samples from one image. This technique helps increase dataset size and variability, which improves model generalization.

Why the other options are incorrect:

* A: Clipping typically refers to limiting pixel values, not augmentation.

* C: Masking hides or removes parts of an image - used more in object detection or inpainting, not to expand the dataset.

* D: Scaling changes the image size but doesn't create new samples.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 6.3: "Cropping is a data augmentation strategy that allows for synthetic expansion of the dataset by generating multiple views."

-

NEW QUESTION # 72

A data scientist needs to determine whether product sales are impacted by other contributing factors. The client has provided the data scientist with sales and other variables in the data set.

The data scientist decides to test potential models that include other information.

INSTRUCTIONS

Part 1

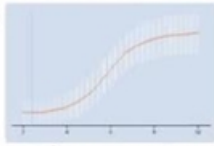
Use the information provided in the table to select the appropriate regression model.

Part 2

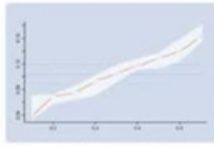
Review the summary output and variable table to determine which variable is statistically significant.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

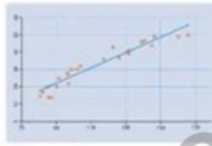
Given the R^2 values, which of the following regression models **best** fits the relationship between the variables?

☐


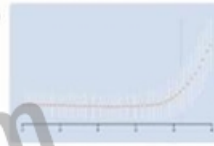
Ridge regression
 R^2 0.5

☐


Quantile regression
 R^2 0.6

☐


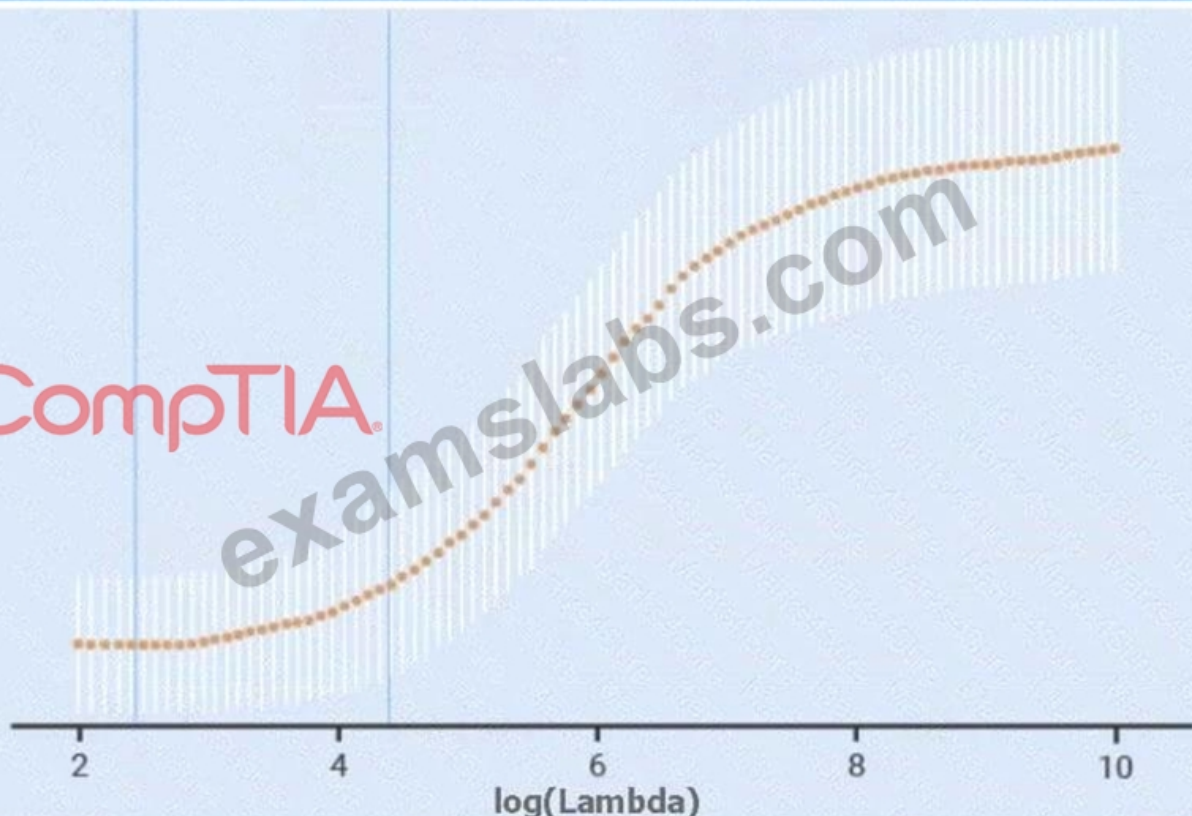
Linear regression
 R^2 0.8

☐


Lasso regression
 R^2 0.62

Time	Var 1: Sales (in millions)	Var 2: ROI (% of overall)	R^2 Value
1	3.118026935	6%	
2	4.823728572	11%	
3	7.149131157	18%	
4	2.173859679	5%	
5	3.519662597	9%	
6	5.98246748	12%	
7	8.495414141	14%	
8	3.678906129	7%	
9	3.539605808	6%	

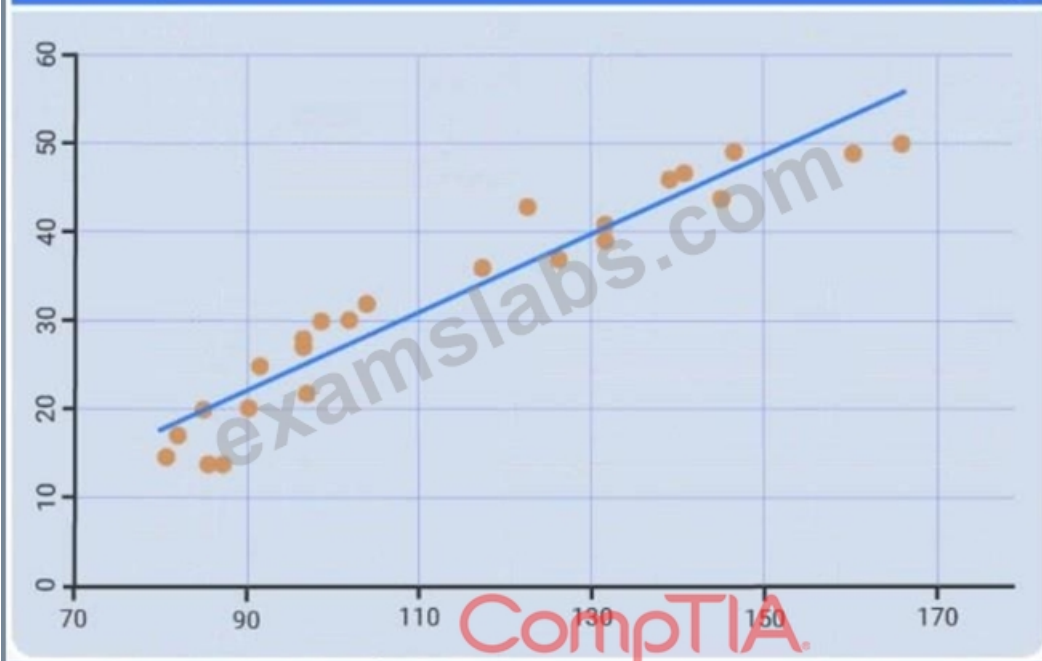
Ridge regression R^2 0.5



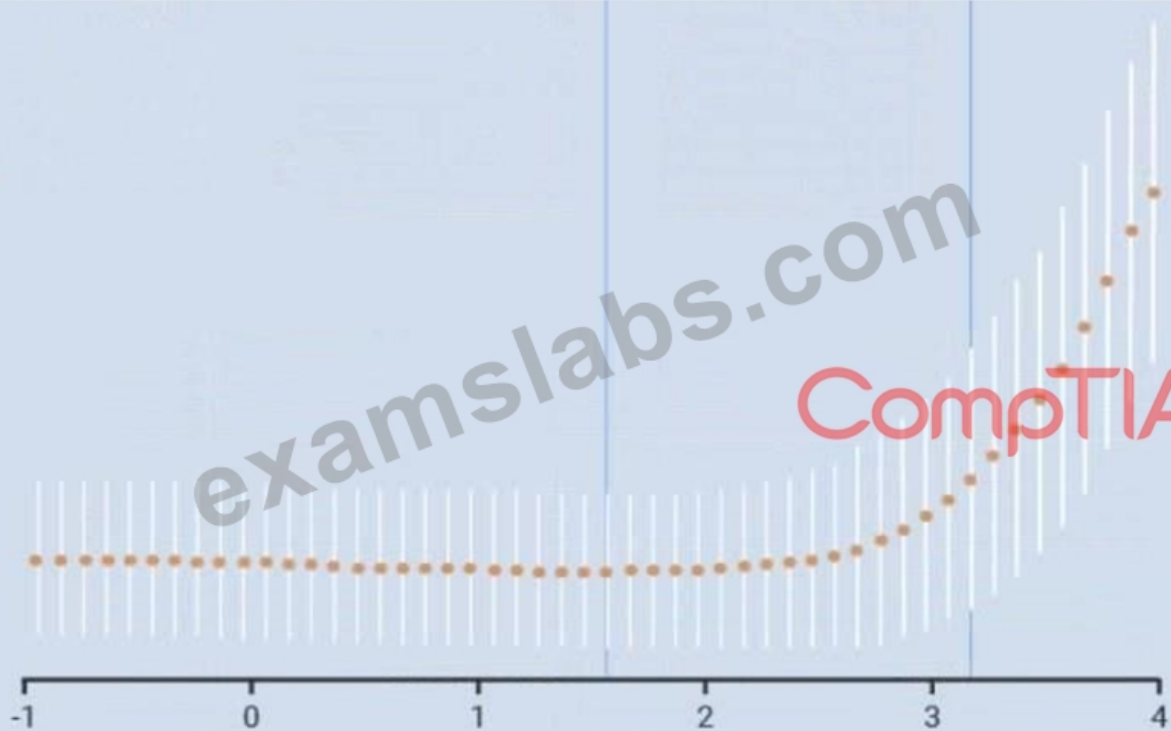
Quantile regression R^2 0.6



Linear regression R^2 0.8



Lasso regression R^2 0.62



Part 1

Part 2

CompTIA

Time	Var 1 Sales (in millions)	Var 2 ROI (% of overall)	Var 3 Inventory cost	Var 4 Net operations cost	Var 5 Initial investment
1	326.311584	16%	58	32	24
2	507.9584031	8%	57	50	39
3	232.5685962	5%	53	23	30
4	117.3342091	7%	50	11	35
5	242.866515	7%	60	24	23
6	359.6300247	14%	50	35	38
7	119.384542	19%	56	11	21
8	372.064584	5%	56	37	29
9	320.0212452	18%	51	31	34

Model	Var 1	Var 2	Var 3	Var 4	Var 5
Model 1	0.000000	0.000000	0.000000	0.000000	0.000000
Model 2	0.000000	0.000000	0.000000	0.000000	0.000000
Model 3	0.000000	0.000000	0.000000	0.000000	0.000000
Model 4	0.000000	0.000000	0.000000	0.000000	0.000000
Model 5	0.000000	0.000000	0.000000	0.000000	0.000000
Model 6	0.000000	0.000000	0.000000	0.000000	0.000000
Model 7	0.000000	0.000000	0.000000	0.000000	0.000000
Model 8	0.000000	0.000000	0.000000	0.000000	0.000000
Model 9	0.000000	0.000000	0.000000	0.000000	0.000000
Model 10	0.000000	0.000000	0.000000	0.000000	0.000000

View summary output

Which of the following additional variables should the data scientist include in the new model?

- ☐ Var 5 Initial investment
- ☐ Var 4 Net operations cost
- ☐ Var 3 Inventory cost
- ☐ None of the variables should be included

Summary output						
Regression statistics			Coefficients	Standard error	t-stat	p-value
Multiple R	0.999978259	Intercept	30.24229003	9.306229821	3.249682267	0.031385159
R square	0.999956518	Var 2 ROI (% of overall)	50.72139711	13.14967361	3.857236202	0.018190028
Adjusted R square	0.999913036	Var 3 Inventory cost	-0.315571292	2.013342425	-0.15674	0.89873
Standard error	1.100286825	Var 4 Net operations cost	9.854244454	0.049842563	197.7074192	0
Observations	9	Var 5 Initial investment	-0.268287655	0.103591751	-1.7654	0.234464
	df	SS	MS	F	Significance F	
Regression	4	111363.9712	27840.9928	22997.0904	5.67185E-09	
Residual	4	4.842524393	1.210631098			
Total	8	111368.8137				

Answer:

Explanation:

See explanation below.

Explanation:

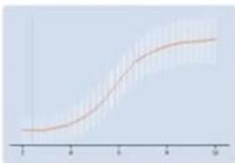
Part 1

Linear regression.

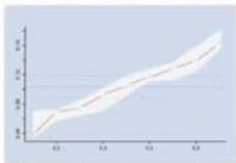
Of the four models, linear regression has the highest R^2 (0.8), indicating it explains the greatest proportion of variance in sales.

Part 1

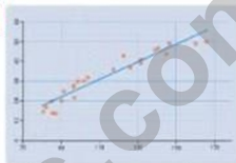
Given the R^2 values, which of the following regression models **best** fits the relationship between the variables?

☐


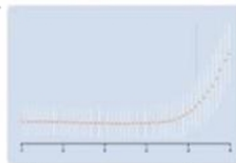
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Lasso regression
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6	5.98246748	12%	
7	8.495414141	14%	
8	3.678906129	7%	
9	3.539605808	6%	

Part 2

Var 4 - Net operations cost.

Net operations cost has a p-value of essentially 0 (far below 0.05), indicating it is the only additional predictor statistically significant

in explaining sales. Neither inventory cost (p#0.90) nor initial investment (p#0.23) reach significance.

Part 1
Part 2

CompTIA

Time	Var 1 Sales (in millions)	Var 2 ROI (% of overall)	Var 3 Inventory cost	Var 4 Net operations cost	Var 5 Initial investment
1	326.311584	16%	58	32	24
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6	359.6300247	14%	50	35	38
7	119.384542	19%	56	11	21
8	372.064584	5%	56	37	29
9	320.0212452	18%	51	31	34

Summary Output

Variable	Model	Estimate	Standard Error	t-Statistic	p-Value
Intercept	1	119.384542	11.938454	10.0000	0.0000
Var 1 Sales	1	0.000000	0.000000	0.0000	1.0000
Var 2 ROI	1	0.000000	0.000000	0.0000	1.0000
Var 3 Inventory cost	1	0.000000	0.000000	0.0000	1.0000
Var 4 Net operations cost	1	0.000000	0.000000	0.0000	1.0000
Var 5 Initial investment	1	0.000000	0.000000	0.0000	1.0000

View summary output

Which of the following additional variables should the data scientist include in the new model?

☐ Var 5 Initial investment
☐ Var 3 Inventory cost

☒ Var 4 Net operations cost
☐ None of the variables should be included

NEW QUESTION # 73

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