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CompTIA DY0-001 Exam Syllabus Topics:

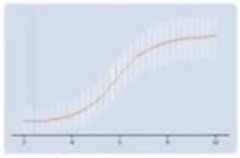
Topic	Details
Topic 1	• Operations and Processes: This section of the exam measures skills of an AI • ML Operations Specialist and evaluates understanding of data ingestion methods, pipeline orchestration, data cleaning, and version control in the data science workflow. Candidates are expected to understand infrastructure needs for various data types and formats, manage clean code practices, and follow documentation standards. The section also explores DevOps and MLOps concepts, including continuous deployment, model performance monitoring, and deployment across environments like cloud, containers, and edge systems.
Topic 2	• Modeling, Analysis, and Outcomes: This section of the exam measures skills of a Data Science Consultant and focuses on exploratory data analysis, feature identification, and visualization techniques to interpret object behavior and relationships. It explores data quality issues, data enrichment practices like feature engineering and transformation, and model design processes including iterations and performance assessments. Candidates are also evaluated on their ability to justify model selections through experiment outcomes and communicate insights effectively to diverse business audiences using appropriate visualization tools.
Topic 3	• Mathematics and Statistics: This section of the exam measures skills of a Data Scientist and covers the application of various statistical techniques used in data science, such as hypothesis testing, regression metrics, and probability functions. It also evaluates understanding of statistical distributions, types of data missingness, and probability models. Candidates are expected to understand essential linear algebra and calculus concepts relevant to data manipulation and analysis, as well as compare time-based models like ARIMA and longitudinal studies used for forecasting and causal inference.
Topic 4	• Specialized Applications of Data Science: This section of the exam measures skills of a Senior Data Analyst and introduces advanced topics like constrained optimization, reinforcement learning, and edge computing. It covers natural language processing fundamentals such as text tokenization, embeddings, sentiment analysis, and LLMs. Candidates also explore computer vision tasks like object detection and segmentation, and are assessed on their understanding of graph theory, anomaly detection, heuristics, and multimodal machine learning, showing how data science extends across multiple domains and applications.
Topic 5	• Machine Learning: This section of the exam measures skills of a Machine Learning Engineer and covers foundational ML concepts such as overfitting, feature selection, and ensemble models. It includes supervised learning algorithms, tree-based methods, and regression techniques. The domain introduces deep learning frameworks and architectures like CNNs, RNNs, and transformers, along with optimization methods. It also addresses unsupervised learning, dimensionality reduction, and clustering models, helping candidates understand the wide range of ML applications and techniques used in modern analytics.

CompTIA DataX Certification Exam Sample Questions (Q20-Q25):

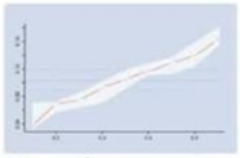
NEW QUESTION # 20
A data scientist needs to determine whether product sales are impacted by other contributing factors. The client has provided the data scientist with sales and other variables in the data set.
The data scientist decides to test potential models that include other information.
INSTRUCTIONS
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.

Part 1 | Part 2

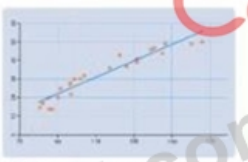
Given the R^2 values, which of the following regression models **best** fits the relationship between the variables?



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%	

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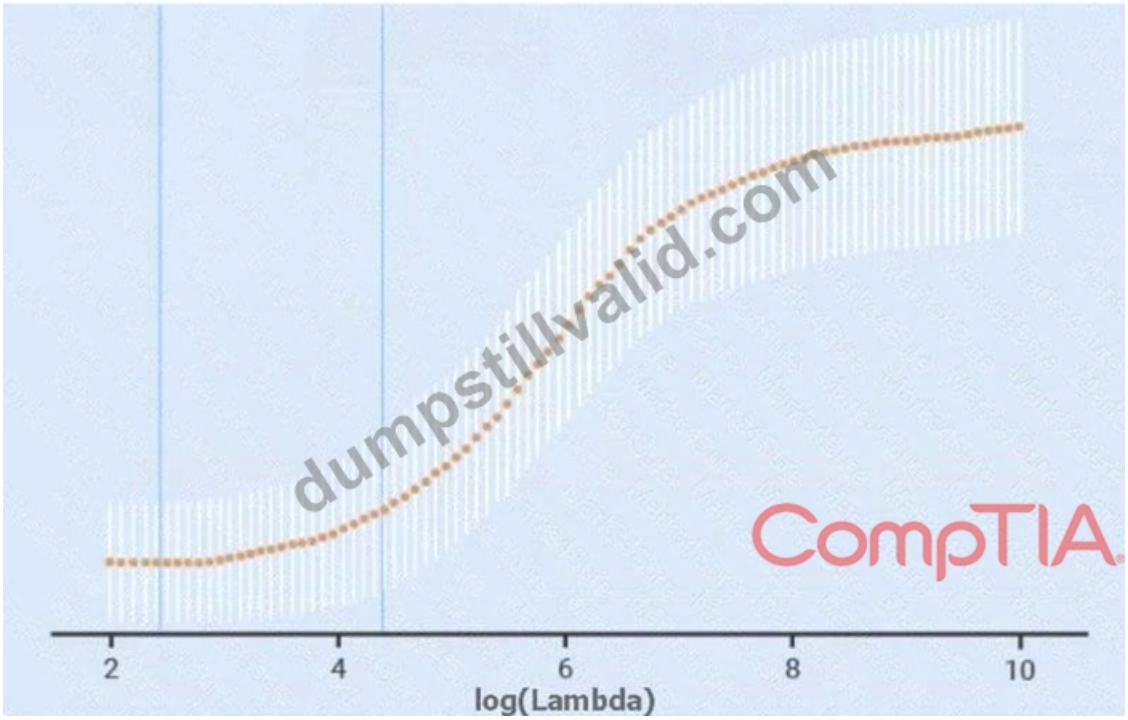
Ridge regression R^2 0.5



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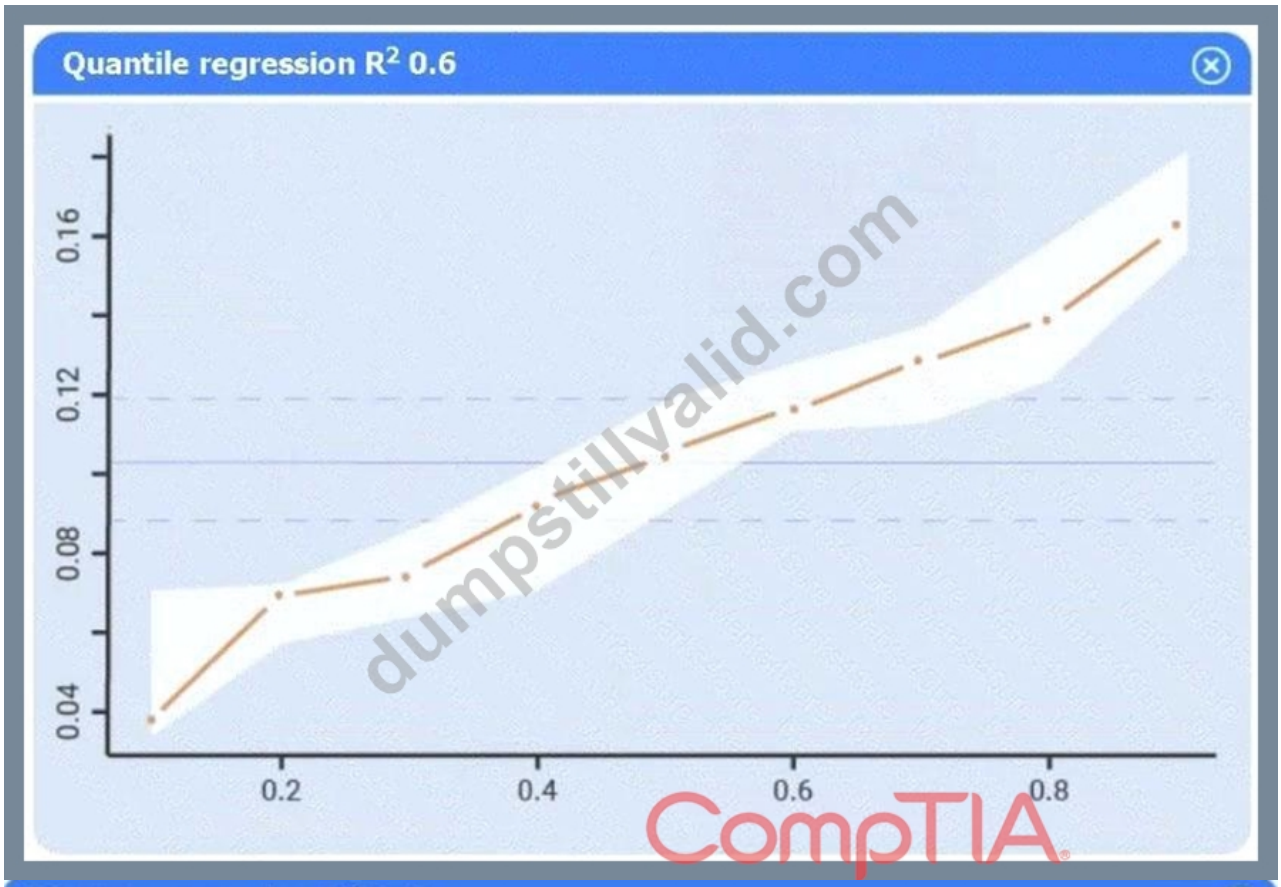
Quantile regression R2 0.6
0.16
0.12
0.08
0.04
0.2
0.4
0.6
0.8
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Linear regression R2 0.8
60
50
40
30
20
10
0
70
90
110
130
150
170
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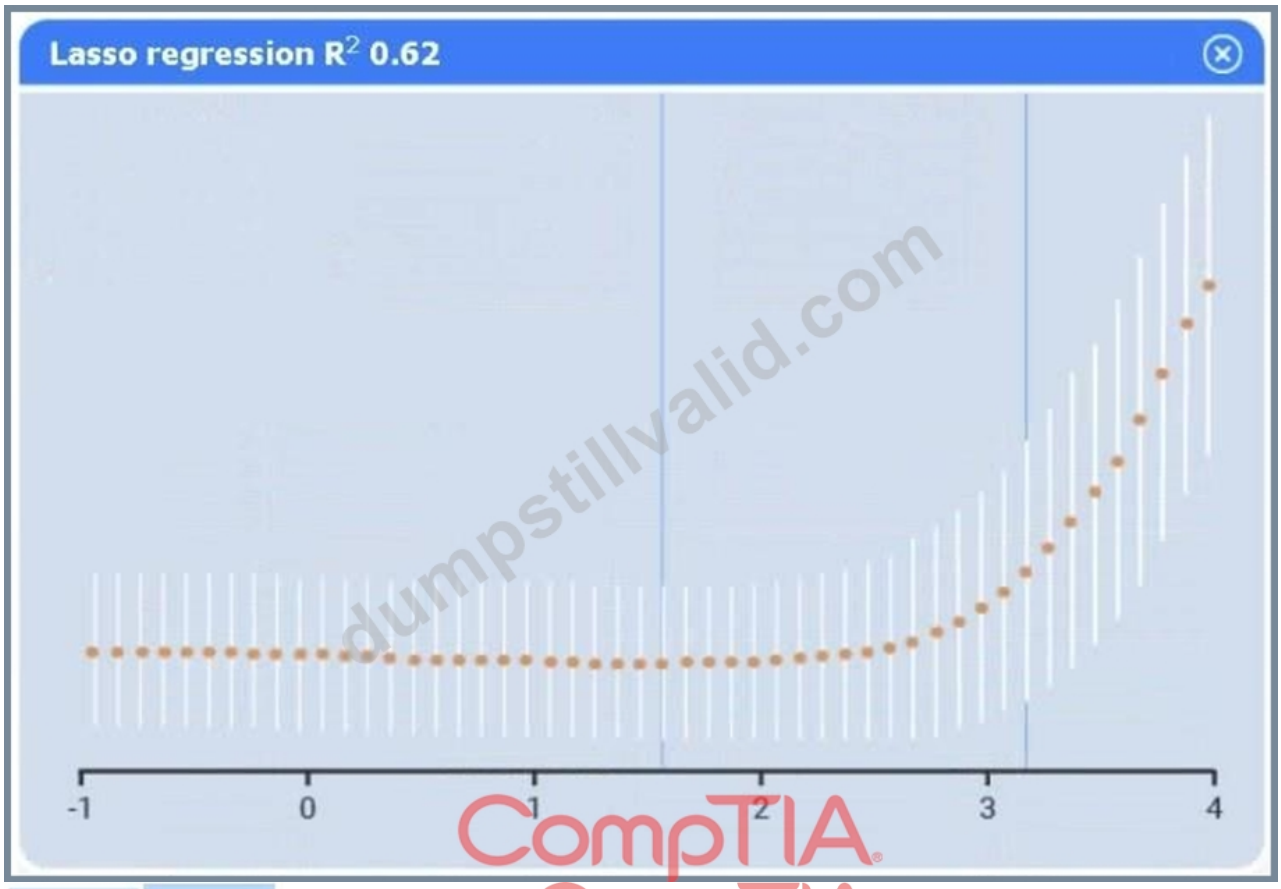

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Part 1 | Part 2

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

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

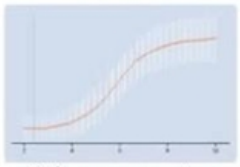
	df	SS	MS	F	Significance F
Regression	4	111363.9712	27840.9928	22997.0904	5.67185E-09
Residual	4	4.842524393	1.210631098		
Total	8	111368.8137			

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 | Part 2

Given the R^2 values, which of the following regression models **best** fits the relationship between the variables?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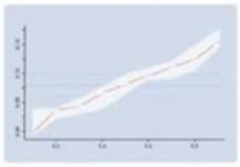
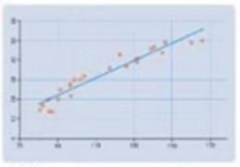
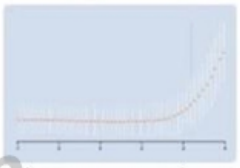
R^2 0.5


Quantile regression
R^2 0.6


Linear regression
R^2 0.8


Lasso regression
R^2 0.62

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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

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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3	232.5685962	5%	53	23	30
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9	320.0212452	18%	51	31	34

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

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NEW QUESTION # 21
A data scientist is working with a data set that covers a two-year period for a large number of machines. The data set contains:
* Machine system ID numbers
* Sensor measurement values
* Daily timestamps for each machine
The data scientist needs to plot the total measurements from all the machines over the entire time period.
Which of the following is the best way to present this data?

- A. Scatter plot
- B. Histogram
- C. Line plot
- D. Box-and-whisker plot

Answer: C

Explanation:
Line plots are ideal for visualizing data trends over continuous time. In this case, plotting the total daily measurements across a two-year period is a time series task, and a line plot shows progression and pattern over time clearly.
Why the other options are incorrect:
* A: Scatter plots are better for relationship exploration, not time trends.
* C: Histograms display distribution - not suitable for continuous time trends.
* D: Box plots show spread and outliers - not temporal behavior.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 1.2:"Use line plots for visualizing temporal trends in time-series data."
* Time Series Visualization Guide, Chapter 2:"Line plots are effective for showing cumulative or aggregated values over time."
-

NEW QUESTION # 22
A data scientist is presenting the recommendations from a monthslong modeling and experiment process to the company's Chief Executive Officer. Which of the following is the best set of artifacts to include in the presentation?

- A. Results, recommendations, justifications, and clear charts
- B. Methodology, code snippets, findings, data tables, and p-values
- C. Methods, data overview, results, recommendations, and charts
- D. Recommendation, charts, justifications, code reviews, and results

Answer: A

Explanation:
For executive-level presentations, the focus should be on strategic outcomes. Therefore, concise results, clear actionable recommendations, visual summaries (charts), and minimal justifications are best. Technical details such as p-values, code, or full methods are too granular.
Why the other options are incorrect:
* A: Too method-heavy for executive audiences.
* C: Includes code reviews - not suitable for a CEO.
* D: Overly technical for high-level stakeholders.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 5.5:"Executive communication should focus on outcome-driven recommendations, high-level insights, and actionable visuals."
* Harvard Business Review - Communicating Data to Executives:"Avoid technical detail. Use visuals and clearly stated recommendations supported by business-focused justifications."

NEW QUESTION # 23
A data scientist is standardizing a large data set that contains website addresses. A specific string inside some of the web addresses needs to be extracted. Which of the following is the best method for extracting the desired string from the text data?

- A. Large language model
- B. Named-entity recognition
- C. Find and replace
- D. Regular expressions

Answer: D

Explanation:
Regular expressions (regex) are powerful tools for pattern matching in text. They are ideal for extracting substrings, such as domains, parameters, or specific keywords from URLs or structured text fields.
Why the other options are incorrect:
* B: NER is used to extract named entities (like names, places) - not substrings in structured text.
* C: LLMs are overkill and not efficient for simple string matching tasks.
* D: Find and replace is manual and non-scalable for large data sets.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 6.3:"Regular expressions provide a flexible method to extract patterns and substrings in structured or semi-structured text."
* Data Cleaning Handbook, Chapter 3:"Regex is the most effective tool for parsing text formats like URLs, emails, or custom tags."
-

NEW QUESTION # 24
Which of the following modeling tools is appropriate for solving a scheduling problem?

- A. Constrained optimization
- B. One-armed bandit
- C. Gradient descent
- D. Decision tree

Answer: A

Explanation:
Scheduling problems typically involve the assignment of limited resources (e.g., time, personnel, machines) over time to tasks, often under constraints. These problems are inherently mathematical and are typically solved using:
Constrained Optimization - which is a mathematical technique for optimizing an objective function subject to one or more constraints. This tool is widely used for operations research problems such as scheduling, resource allocation, logistics, and supply chain optimization.
Why the other options are incorrect:
* A. One-armed bandit: Refers to a class of algorithms used for balancing exploration and exploitation, not scheduling.
* C. Decision tree: Used for classification and regression, not for constraint-based scheduling.
* D. Gradient descent: An optimization method for training models (typically ML), but not specifically suitable for complex constraint-based scheduling.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 3.4 (Modeling Tools):"Scheduling and allocation problems are best addressed using constrained optimization techniques which allow incorporation of resource limits and goal functions."
* Data Science and Operations Research Foundations, Chapter 7:"Constraint-based optimization is the primary mathematical strategy used in scheduling problems to meet deadlines, minimize cost, or maximize throughput."
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NEW QUESTION # 25
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