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CompTIA DataX Certification Exam Sample Questions (Q23-Q28):

NEW QUESTION # 23
A data scientist is deploying a model that needs to be accessed by multiple departments with minimal development effort by the departments. Which of the following APIs would be best for the data scientist to use?

- A. REST
- B. RPC
- C. SOAP
- D. JSON

Answer: A

Explanation:
REST (Representational State Transfer) is a web-based API style that is widely adopted for its simplicity, scalability, and use of standard HTTP methods (GET, POST, PUT, DELETE). It is stateless and can be consumed easily by multiple systems and departments with minimal integration work.
Why the other options are incorrect:

* A: SOAP is heavy, XML-based, and requires more development overhead.
* B: RPC is lower-level and not well-suited for scalable, modern web services.
* C: JSON is a data format, not an API protocol.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 5.4 (API and Model Deployment):"REST APIs are preferred for exposing models to various consumers due to their simplicity, platform-agnostic nature, and use of standard HTTP."
* Data Engineering Design Patterns, Section 6:"RESTful services enable easy integration of machine learning models with front-end and enterprise systems." RESTful APIs use standard HTTP methods and lightweight data formats (typically JSON), making them easy for diverse teams to integrate with minimal effort and without heavy tooling.

NEW QUESTION # 24
Which of the following layer sets includes the minimum three layers required to constitute an artificial neural network?

* A. An input layer, a hidden layer, and an output layer
* B. An input layer, a dropout layer, and a hidden layer
* C. An input layer, a convolutional layer, and a hidden layer
* D. An input layer, a pooling layer, and an output layer

Answer: A

Explanation:
A basic artificial neural network (ANN) consists of:
* An input layer to receive data
* At least one hidden layer to process the data
* An output layer to produce predictions
These three layers form the minimal architecture required for learning and transformation.
Why the other options are incorrect:
* A: Pooling layers are used in CNNs, not core ANN structure.
* B: Convolutional layers are specific to CNNs.
* D: Dropout is a regularization technique, not a required component.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 4.3:"ANNs must include an input layer, hidden layer(s), and an output layer to form a complete learning structure."
* Deep Learning Fundamentals, Chapter 3:"At a minimum, a neural network includes input, hidden, and output layers to process and propagate data."
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NEW QUESTION # 25
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. 25 hours lost
* B. 165 hours lost
* C. 25 hours saved
* D. 165 hours saved

Answer: D

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 # 26
The most likely concern with a one-feature, machine-learning model is high error due to:

- A. probability
- B. variance
- C. bias
- D. dimensionality

Answer: C

Explanation:
A one-feature model is likely to be overly simplistic and may not capture the true complexity of the target variable. This leads to underfitting, which is associated with high bias - the model consistently misses the mark regardless of the data.
Why the other options are incorrect:
* B: High dimensionality is not a concern in this case - the model has too few features.
* C: Variance refers to overfitting - more common in overly complex models.
* D: Probability is a modeling technique, not a source of error.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 4.2:"Models with insufficient features tend to underfit and exhibit high bias due to their inability to represent complex relationships."
* Bias-Variance Tradeoff - Data Science Textbook:"A high-bias model makes strong assumptions and is typically too simple to capture the underlying patterns in data."

NEW QUESTION # 27
Which of the following is the layer that is responsible for the depth in deep learning?

- A. Pooling
- B. Dropout
- C. Convolution
- D. Hidden

Answer: D

Explanation:

In deep learning, the term "depth" refers to the number of layers between the input and output. These intermediate layers are called hidden layers because their outputs are not directly observed.

Hidden layers are where the network learns hierarchical features. As more hidden layers are added, the model becomes deeper, allowing it to learn more complex patterns and representations from the data.

Why the other options are incorrect:

* A. Convolution: This is a specific type of operation applied in convolutional neural networks (CNNs) but is not the general source of model depth.
* B. Dropout: A regularization technique used to prevent overfitting; it doesn't contribute to the model's depth.
* C. Pooling: Reduces the dimensionality of feature maps; not responsible for the depth of the network.

Exact Extract and Official References:

* CompTIA DataX (DY0-001) Official Study Guide, Domain: Machine Learning

"In deep neural networks, hidden layers represent the model's depth. Each hidden layer allows the network to learn more abstract and high-level features." (Section 4.3, Deep Learning Fundamentals)

* Deep Learning Textbook by Ian Goodfellow, Yoshua Bengio, and Aaron Courville:

"Depth in deep learning refers to the number of hidden layers in the network. Each hidden layer extracts increasingly abstract features of the input data." (Chapter 6, Feedforward Deep Networks)

NEW QUESTION # 28

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