C1000-059 Q&As

IBM AI Enterprise Workflow V1 Data Science Specialist

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QUESTION 1

Which fine-tuning technique does not optimize the hyperparameters of a machine learning model?

A. grid search

B. population based training

C. random search

D. hyperband

Correct Answer: D

Reference: https://www.datacamp.com/community/tutorials/parameter-optimization-machine-learning- models

QUESTION 2

A neural network is composed of a first affine transformation (affine1) followed by a ReLU non-linearity, followed by a second affine transformation (affine2). Which two explicit functions are implemented by this neural network? (Choose two.)

A. y = affine1(ReLU(affine2(x)))

B. y = max(affine1(x), affine2(x))

C. y = affine2(ReLU(affine1(x)))

D. y = affine2(max(affine1(x), 0))

E. y = ReLU(affine1(x), affine2(x))

Correct Answer: CD

QUESTION 3

A data scientist is exploring transaction data from a chain of stores with several locations. The data includes store number, date of sale, and purchase amount. If the data scientist wants to compare total monthly sales between stores, which two options would be good ways to aggregate the data? (Choose two.)

A. Find the sum of the transaction prices

B. Select the largest transaction amount by month and store

C. Write a GROUP BY query

D. Plot a time series plot of transaction amounts

E. Generate a pivot table

Correct Answer: BD

QUESTION 4

In machine vision, the algorithm for detecting objects or features in an image based on a target pattern is known as?

A. OCR

B. Hough transformation

C. Fourier transform

D. normalized correlation

Correct Answer: D

QUESTION 5

Which distance is applied for multivariate outlier detection?

A. Minkowski distance

B. Manhattan distance

C. Mahalanobis distance

D. Euclidean distance

Correct Answer: C

Reference: https://core.ac.uk/download/pdf/233075917.pdf

QUESTION 6

What is the primary role of a data steward?

A. they are a "blue sky thinker" who comes up with new approaches to use new data in innovative ways

B. they have a strong understanding of the enterprise\\'s database architecture

C. they define data processes to meet compliance and regulatory obligations

D. the one who collects, processes, and performs statistical analysis on data

Correct Answer: D

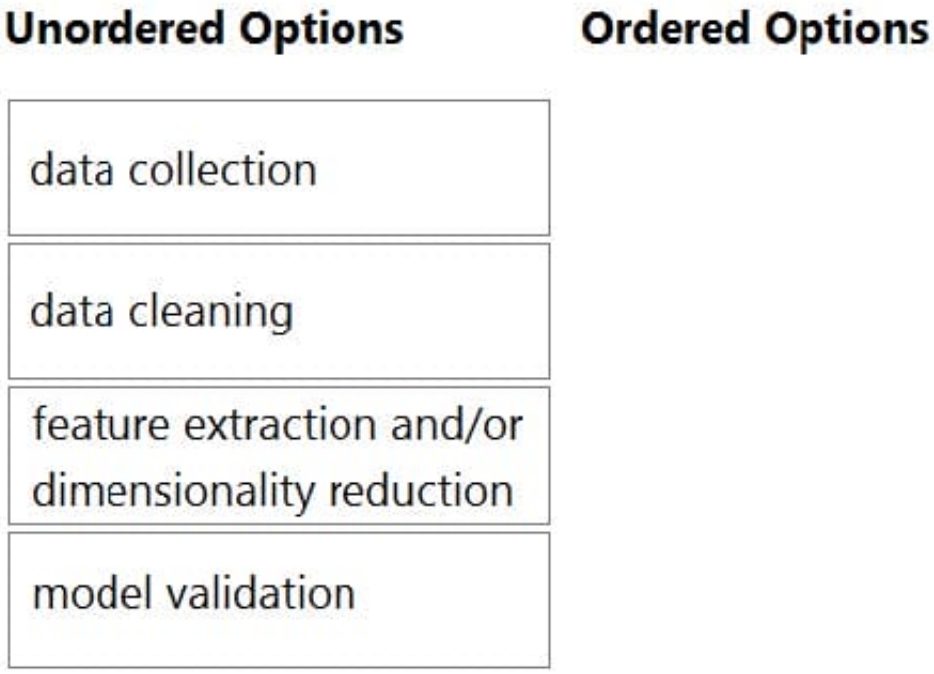
Reference: https://analyticsindiamag.com/data-steward-roles-responsibilities/

QUESTION 7

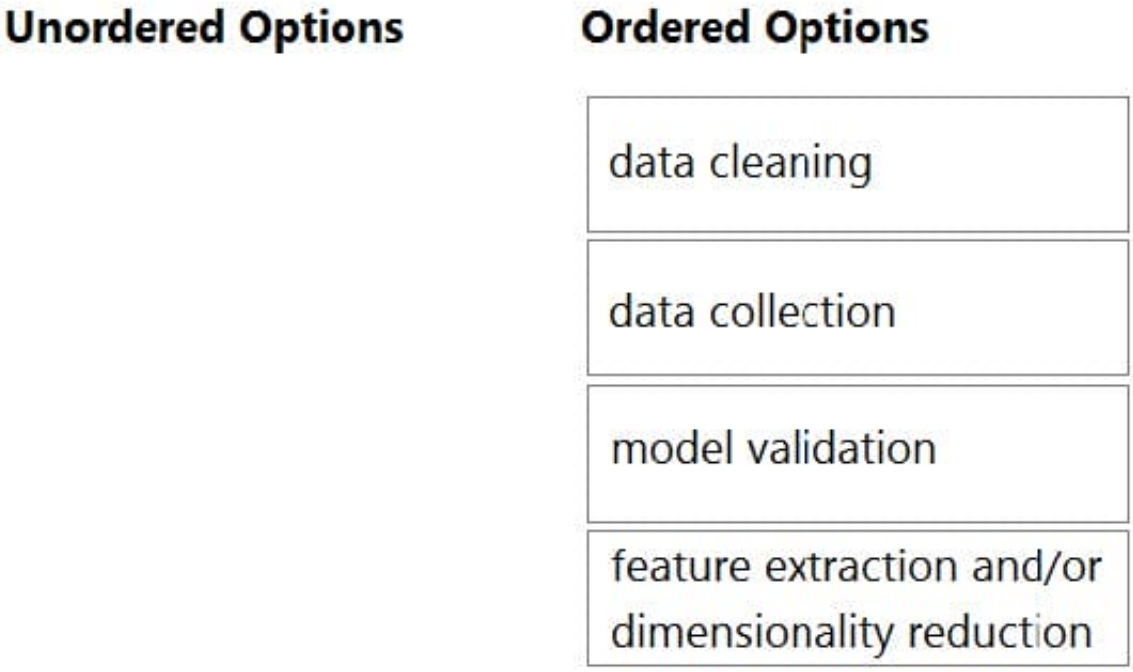
DRAG DROP

What is the best step by step order for machine learning pipeline?

Select and Place:



Correct Answer:



QUESTION 8

Which is an example of a nominal scale data?

A. a variable industry with categorical values such as financial, engineering, and retail

B. a variable mood with a scale of values unhappy, ok, and happy

C. a variable bank account balance whose possible values are $5, $10, and $15

D. a variable temperature with a scale of values low, medium, and high

Correct Answer: C

QUESTION 9

Considering one ML application is deployed using Kubernetes, its output depends on the data which is constantly stored in the model, if needing to scale the system based on available CPUs, what feature should be enabled?

A. persistent storage

B. vertical pod autoscaling

C. horizontal pod autoscaling

D. node self-registration mode

Correct Answer: A

QUESTION 10

Which statement defines p-value?

A. It is the probability of accepting a null hypothesis when the hypothesis is proven true.

B. It is the probability of rejecting a null hypothesis when the hypothesis is proven false.

C. It is the probability of accepting a null hypothesis when the hypothesis is proven false.

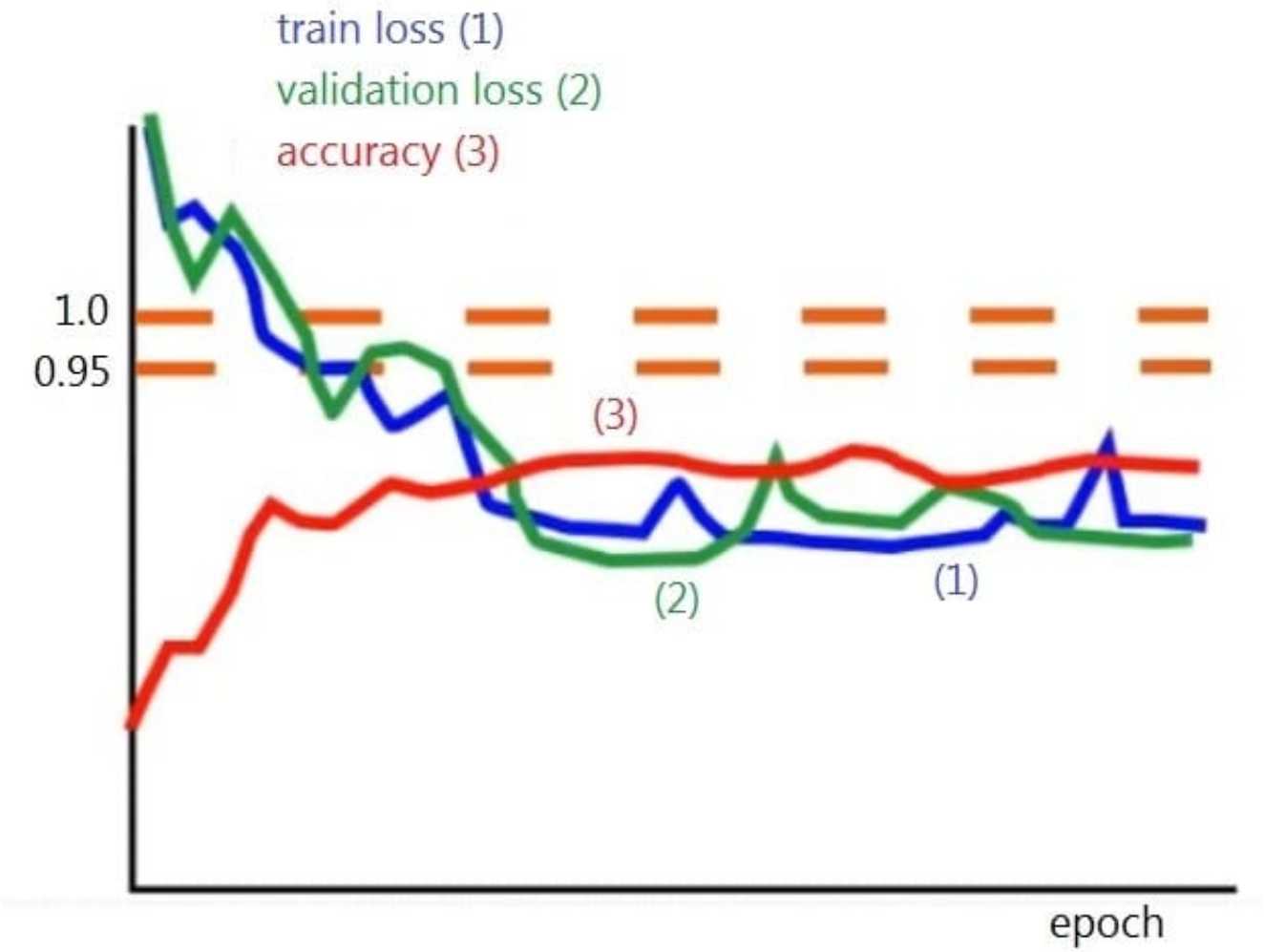
D. It is the probability of rejecting a null hypothesis when the hypothesis is proven true.

Correct Answer: C

Reference: https://courses.lumenlearning.com/wmopen-concepts-statistics/chapter/introduction-to- hypothesis-testing-5-of-5/

QUESTION 11

A neural network is trained for a classification task. During training, you monitor the loss function for the train dataset and the validation dataset, along with the accuracy for the validation dataset. The goal is to get an accuracy of 95%.



From the graph, what modification would be appropriate to improve the performance of the model?

A. increase the depth of the neural network

B. insert a dropout layer in the neural network architecture

C. increase the proportion of the train dataset by moving examples from the validation dataset to the train dataset

D. restart the training with a higher learning rate

Correct Answer: D

QUESTION 12

After importing a Jupyter notebook and CSV data file into IBM Watson Studio in the IBM Public Cloud project, it is discovered that the notebook code can no longer access the CSV file. What is the most likely reason for this problem?

A. CSV files cannot be used as data sources in Watson Studio.

B. The CSV file was converted to a binary blob and must be converted in the notebook code.

C. The CSV file is stored in a Cloud Object Storage.

D. The CSV file is stored in a Watson Machine Learning instance and is only accessible via REST API.

Correct Answer: C

Reference: https://github.com/IBM/watson-stock-market-predictor/blob/master/README.md

QUESTION 13

Given the following sentence:

The dog jumps over a fence.

What would a vectorized version after common English stopword removal look like?

A. [\\'dog\\', \\'fence\\', \\'run\\']

B. [\\'fence\\', \\'jumps\\']

C. [\\'dog\\', \\'fence\\', \\'jumps\\']

D. [\\'a\\', \\'dog\\', \\'fence\\', \\'jumps\\', \\'over\\', \\'the\\']

Correct Answer: C

Reference: https://towardsdatascience.com/text-pre-processing-stop-words-removal-using-different- libraries-f20bac19929a

QUESTION 14

What is the goal of the backpropagation algorithm?

A. to randomize the trajectory of the neural network parameters during training

B. to smooth the gradient of the loss function in order to avoid getting trapped in small local minimas

C. to scale the gradient descent step in proportion to the gradient magnitude

D. to compute the gradient of the loss function with respect to the neural network parameters

Correct Answer: B

Reference: https://www.sciencedirect.com/topics/computer-science/backpropagation

QUESTION 15

Which two properties hold true for standardized variables (also known as z-score normalization)? (Choose two.)

A. standard deviation = 0.5

B. expected value = 0

C. expected value = 0.5

D. expected value = 1

E. standard deviation = 1

Correct Answer: CE