# C1000-059<sup>Q&As</sup>

IBM AI Enterprise Workflow V1 Data Science Specialist

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**QUESTION 1**

DRAG DROP

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

Select and Place:

**Unordered Options**          **Ordered Options**

| data collection |

| data cleaning |

| feature extraction and/or dimensionality reduction |

| model validation |

Correct Answer:

**Unordered Options**

**Ordered Options**

| data cleaning |
| data collection |
| model validation |
| feature extraction and/or dimensionality reduction |

## QUESTION 2

Which IBM Watson Machine Learning deployment method offers the ultimate flexibility in deploying a machine learning model?

A. Watson Machine Learning Python client

B. Watson Machine Learning FORTRAN client

C. Watson Studio Project

D. Watson Machine Learning REST API

Correct Answer: D

Reference: https://neptune.ai/blog/best-machine-learning-as-a-service-platforms-mlaas

## QUESTION 3

When communicating technical results to business stakeholders, what are three appropriate topics to include? (Choose three.)

A. methods that failed

B. newest developments in AI methods

C. benefits of cognitive over business analytics

D. realistic impact on the business measures

E. differences between cloud provider portfolios

F. alternative methods to address the business problem

Correct Answer: CDF

## QUESTION 4

What is an example of a supervised machine learning algorithm that can be applied to a continuous numeric response variable?

A. linear regression

B. k-means

C. local outlier factor (LOF)

D. naive Bayes

Correct Answer: A

Reference: https://www.analyticsvidhya.com/blog/2017/09/common-machine-learning-algorithms/

## QUESTION 5

If the distribution of the height of American men is approximately normal, with a mean of 69 inches and a standard deviation of 2.5 inches, then roughly 68 percent of American men have heights between _____ and _____.

A. 64 inches and 74 inches
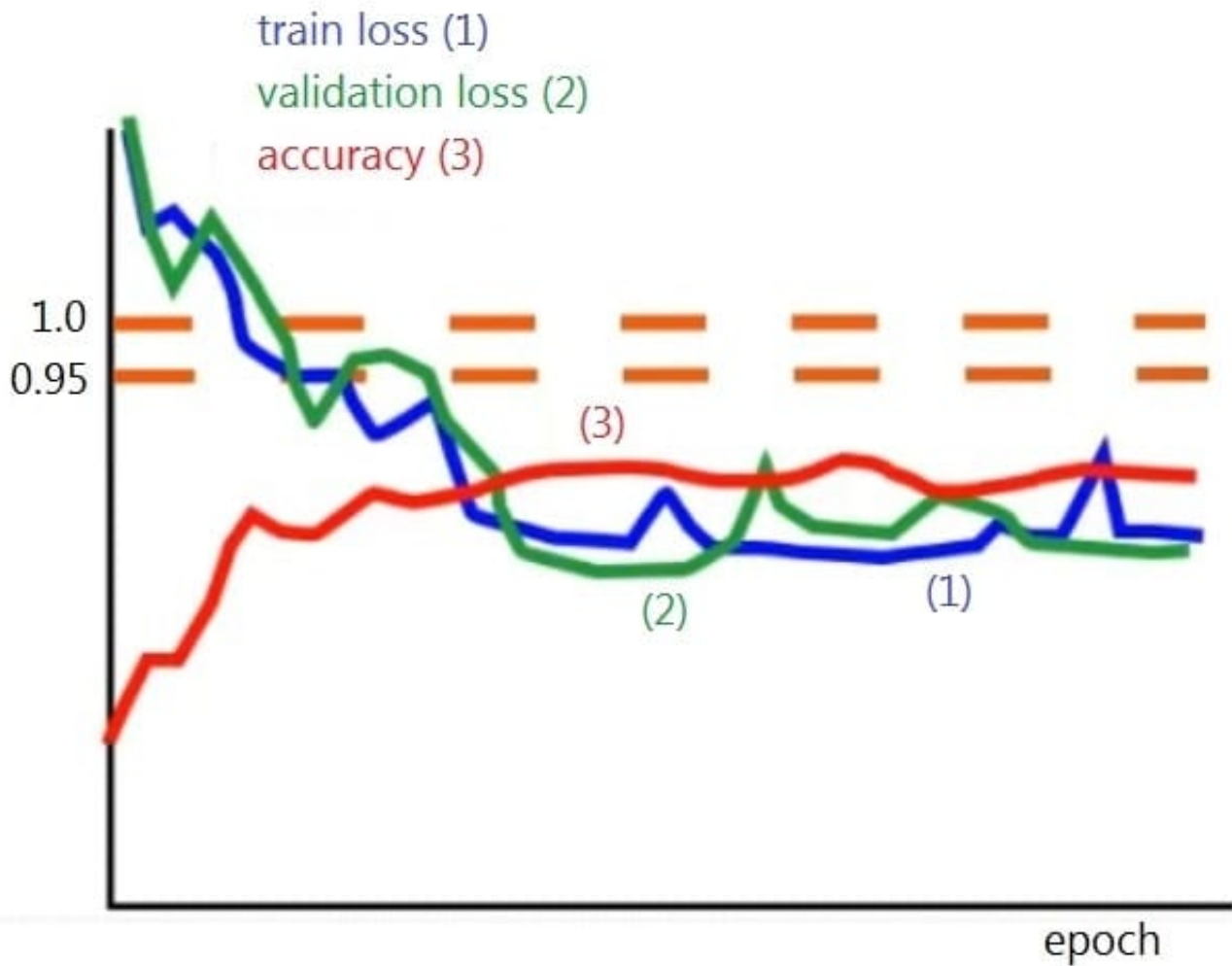
B. 66.5 inches and 69 inches

C. 71.5 inches and 76.5 inches

D. 66.5 inches and 71.5 inches

Correct Answer: B

## QUESTION 6

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

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**QUESTION 7**

What is a class of machine learning problems where the algorithm builds a mathematical model from a set of data that contains both the inputs and the desired outputs?

A. unsupervised learning

B. mentoring

C. reinforcement learning

D. supervised learning

Correct Answer: D

Reference: https://en.wikipedia.org/wiki/Machine_learning

## QUESTION 8

What is the first step in creating a custom model in Watson Visual Recognition service?

A. Test the newly trained model.

B. Document the errors from the built in models.

C. Obtain image files containing objects to be classified and organize them into classes.

D. Use IBM SPSS to create new machine learning classifiers.

Correct Answer: D

## 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

In which example would recall be preferred over precision?

A. recall is always preferred

B. identify suitable candidates for a job

C. detection of malignant tumors

D. book recommendation

Correct Answer: C

Reference: https://developers.google.com/machine-learning/crash-course/classification/precision-and- recall

**QUESTION 11**

What is a class of machine learning problems where the algorithm is given feedback in the form of positive or negative reward in a dynamic environment?

A. reinforcement learning

B. feedback-based optimization

C. dynamic programming

D. reward learning

Correct Answer: A

Reference: https://www.kdnuggets.com/2018/03/5-things-reinforcement-learning.html

**QUESTION 12**

What are three elements that are typically part of a machine learning pipeline in scikit-learn or pyspark? (Choose three.)

A. model building

B. data preprocessing

C. model prediction

D. business understanding

E. use case selection F. data exploration

Correct Answer: BCF

Reference: https://www.analyticsvidhya.com/blog/2019/11/build-machine-learning-pipelines-pyspark/

**QUESTION 13**

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 14**

What are two methods used to detect outliers in structured data? (Choose two.)

A. multi-label classification

B. isolation forest

C. gradient descent

D. one class Support Vector Machine (SVM)

E. Word2Vec

Correct Answer: BD

Reference: https://www.researchgate.net/post/What-is-the-best-outliers-detection-algorithm-to-used-for- big-data

**QUESTION 15**

What is used to scale large positive values during data cleaning?

A. division by random numbers

B. square

C. logarithm

D. subtract median

Correct Answer: A