



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

IBM AI Enterprise Workflow V1 Data Science Specialist

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**QUESTION 1**

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

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**QUESTION 2**

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/>

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**QUESTION 3**

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>

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**QUESTION 4**

Given the following sentence:

The dog jumps over a fence.

What would a vectorized version after common English stopwords 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>

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**QUESTION 5**

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>

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