C1000-059^{Q&As}

IBM AI Enterprise Workflow V1 Data Science Specialist

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QUESTION 1

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 2

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 3

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

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QUESTION 4

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 5

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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