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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 22 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 22

Topic #: 1

[All Professional Machine Learning Engineer Questions]

What is the correct way to write the predict request?

```
You trained a text classification model. You have the following SignatureDefs:
signature def['serving default']:
  The given SavedModel SignatureDef contains the following input(s):
     inputs['text'] tensor info:
          dtype: DT STRING
          shape: (-1, 2)
         name: serving default text: 0
  The given SavedModel SignatureDef contains the following output(s):
    outputs ['Softmax'] tensor info:
          dtype: DT FLOAT
          shape: (-1, 2)
         name: StatefulPartitionedCall:0
  Method name is: tensorflow/serving/predict
You started a TensorFlow-serving component server and tried to send an HTTP request to get a prediction using: headers =
{"content-type": "application/json"} json_response = requests.post('http://localhost:8501/v1/models/text_model:predict',
data=data, headers=headers)
```

A. data = json.dumps({a€signature_namea :€a€seving_defaulta ,€a€instancesa€ [['ab', 'bc', 'cd']]})

- B. data = json.dumps({λ€signature_nameλ :€λ€serving_defaultλ ,€λ€instancesλ€ [['a', 'b', 'c', 'd', 'e', 'f']]})
- C. data = json.dumps({\a\in\signature_name\a :\in\serving_default\a ,\in\alignature\signature\serving_default\a ,\in\alignature\serving\servi

D. data = json.dumps({a€signature_namea :€a€serving_defaulta ,€a€instancesa€ [['a', 'b'], ['c', 'd'], ['e', 'f']]}) **Show Suggested Answer** by [deleted] at June 2, 2021, 10:38 p.m. **Comments** Type your comment... **Submit** ☐ ♣ [Removed] Highly Voted • 3 years, 4 months ago Options: A. data = json.dumps({"signature name": "seving default", "instances" [['ab', 'bc', 'cd']]}) B. data = json.dumps({"signature name": "serving default", "instances" [['a', 'b', 'c', 'd', 'e', 'f']]}) C. data = json.dumps({"signature name": "serving default", "instances" [['a', 'b', 'c'], ['d', 'e', 'f']]}) D. data = json.dumps({"signature_name": "serving_default", "instances" [['a', 'b'], ['c', 'd'], ['e', 'f']]}) upvoted 27 times ■ maartenalexander Highly Voted * 3 years, 4 months ago Most likely D. A negative number in the shape enables auto expand (https://stackoverflow.com/questions/37956197/what-isthe-negative-index-in-shape-arrays-used-for-tensorflow). Then the first number -1 out of the shape (-1, 2) speaks the number of 1 dimensional arrays within the tensor (and it can autoexpand) while the second numer (2) sets the number of elements in the inner array at 2. Hence D. upvoted 21 times ☐ 🎍 jkkim_jt Most Recent ② 2 days, 22 hours ago Selected Answer: D the shape (-1, 2) indicates that the data can have any number of rows (denoted by -1), but must have exactly 2 columns. In machine learning, especially in frameworks like TensorFlow or Keras, the -1 acts as a placeholder for dynamic batch sizes, meaning the model can process inputs with any number of samples (rows), but each sample must have exactly 2 features (columns). 📩 🦴 🎮 upvoted 1 times PhilipKoku 4 months, 2 weeks ago Selected Answer: D D) Any rows, 2 columns. upvoted 1 times

■ M25 1 year, 5 months ago

Selected Answer: D

Went with D

upvoted 2 times

ago wish0035 1 year, 10 months ago

Selected Answer: D

ans: D

upvoted 1 times

EFIGO 1 year, 11 months ago

Selected Answer: D

Having "shape=[-1,2]", the input can have as many rows as we want, but each row needs to be of 2 elements. The only option satisfying this requirement is D.

👍 🤚 🏴 upvoted 1 times

🖃 🚨 GCP72 2 years, 2 months ago

Selected Answer: D

Correct answer is "D"

upvoted 1 times

☐ 🏜 inder0007 3 years, 4 months ago

■ Danny2021 3 years, 1 month ago

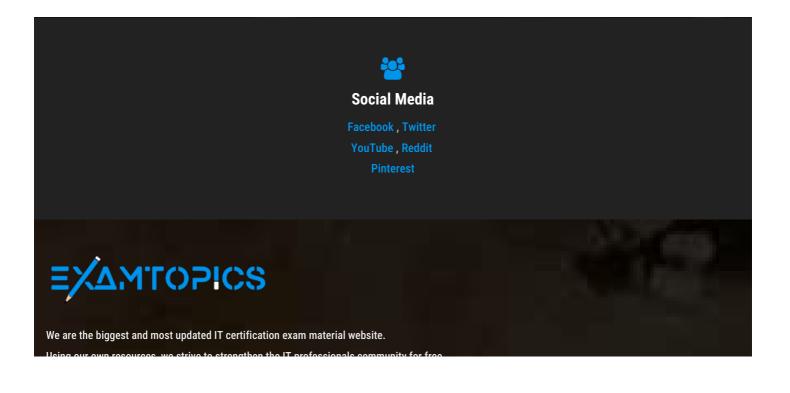
Correct answer is D, the shapes otherwise don't matter

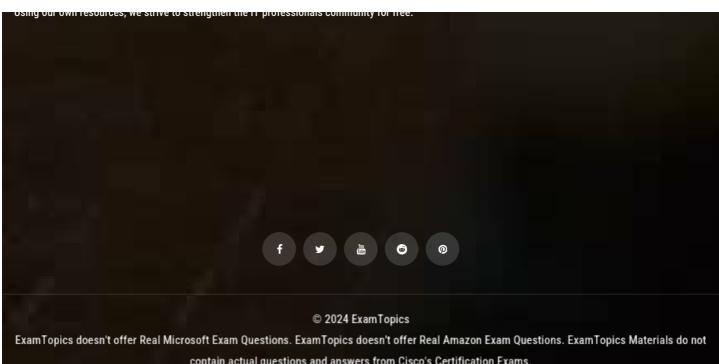
D: (-1, 2) represents a vector with any number of rows but only 2 columns.

upvoted 4 times

upvoted 5 times

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