

QUIZ: Keras and Deep Learning Libraries

Pregunta 1:

1. Which of the following statements is correct?

- ☐ TensorFlow is the cousin of the Torch framework, which is in Lua, and supports machine learning algorithms running on GPUs in particular.
- ☐ Keras and PyTorch are both supported by Google and are being actively used at Google for both research and production needs.
- ☒ Keras is a high-level API that facilitates fast development and quick prototyping of deep learning models.
- ☐ PyTorch normally runs on top of a low-level library such as TensorFlow.
- ☐ Among TensorFlow, PyTorch, and Keras, Keras is the most popular library and is mostly used in production of deep learning models.

Pregunta 2:

2. Both TensorFlow and PyTorch are high level APIs for building deep learning models. They provide limited control over the different nodes and layers in a network. If you are seeking more control over a network, then Keras is the right library.

- ☐ True
- ☒ False

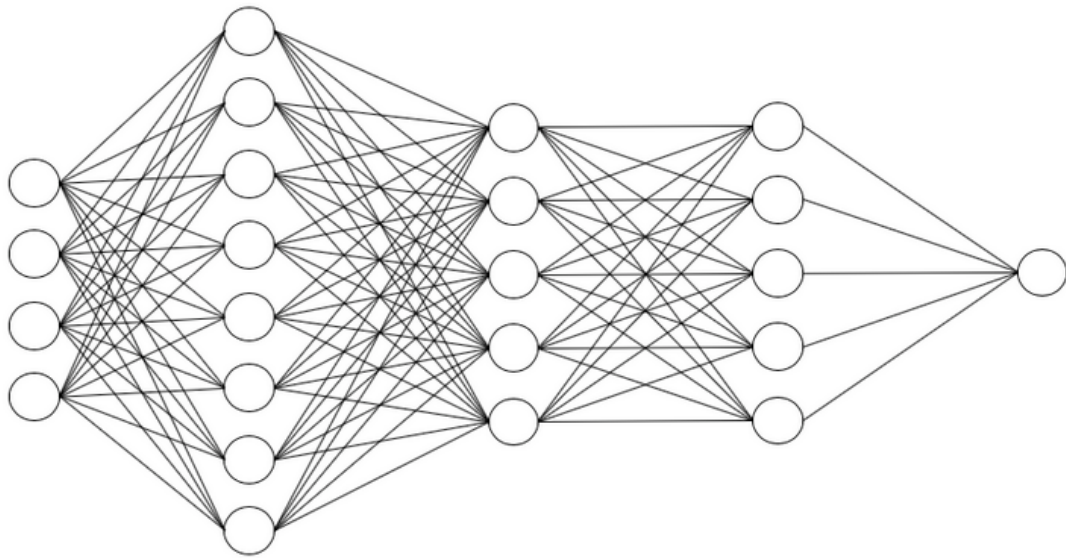
Pregunta 3:

3. There are three model classes in the Keras library, the Sequential model, the Dense model, and the Model class used with the functional API.

- ☐ True
- ☒ False

Pregunta 4:

4. Which of the following codes creates the following neural network using the Keras library?



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```
1 model = Sequential()  
2 model.add(Dense(8, activation='relu', input_shape=(4,)))  
3 model.add(Dense(5, activation='relu'))  
4 model.add(Dense(5, activation='relu'))  
5 model.add(Dense(1))
```

☐

```
1 model = Sequential()  
2 model.Dense(add(8, activation='relu', input_shape=(8,)))  
3 model.Dense(add(5, activation='relu'))  
4 model.Dense(add(5, activation='relu'))  
5 model.Dense(add(1))
```

☐

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3 model.Dense(add(5, activation='relu'))  
4 model.Dense(add(5, activation='relu'))  
5 model.Dense(add(1))
```

☐

```
1 model = Sequential()  
2 model.add_Dense(5, activation='relu', input_shape=(4,))  
3 model.add_Dense(8, activation='relu')  
4 model.add_Dense(4, activation='relu')  
5 model.add_Dense(1)
```

Pregunta 5:

5. If a model can be saved using the Keras library, which of following methods is the correct method to do so?

- ☐ `model.model_save()`
- ☒ `model.save()`
- ☐ `model.save_model()`
- ☐ `model.pickle()`
- ☐ You cannot save a model with the Keras library