# Keras and Deep Learning Libraries

**LATEST SUBMISSION GRADE**

100%

1. Which ofthe following statements is correct? **1 / 1 point**

   - ○ 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.
   - ○ Among TensorFlow, PyTorch, and Keras, Keras is the most popular library and is mostly used in production of deep learning models.
   - ○ PyTorch normally runs on top of a low-level library such as TensorFlow.
   - ◉ Keras is a high-level API that facilitates fast development and quick prototyping of deep learning models.

   ✓ **Correct**
   Correct.

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. **1 / 1 point**

   - ○ True
   - ◉ False

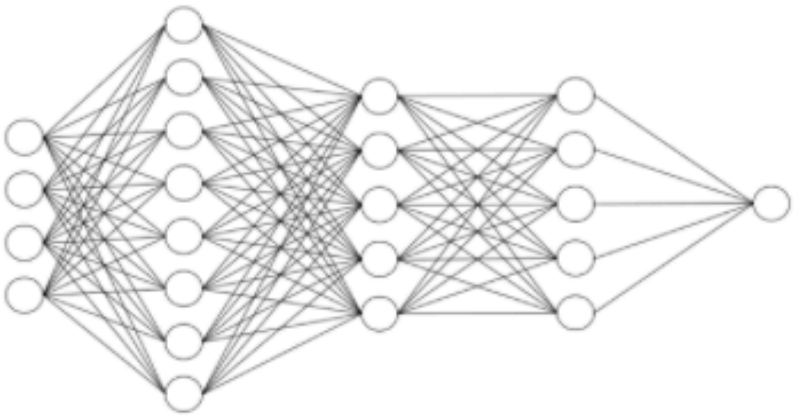
   ✓ **Correct**
   Correct.

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. **1 / 1 point**

   - ○ True
   - ◉ False

   ✓ **Correct**
   Correct.

4. Which of the following codes creates the followig neural network using the Keras library? 1 / 1 point



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

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

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

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

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

✓ **Correct**
Correct.

5. If a model can be saved using the Keras library, which of following methods is the correct method to do so? 1 / 1 point

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

✓ **Correct**
Correct