

Keep Learning

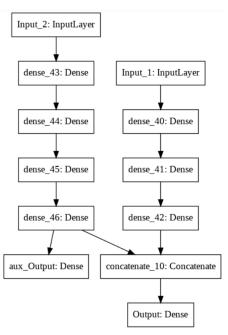
grade 90%

Custom Models

LATEST SUBMISSION GRADE 90%

1. Following is an example of a deep and wide network structure.

1/1 point



○ True

False

✓ Correct

Correct! This model structure does not have an input path that go through a shallow, or a wide layer.

2. Consider the following code and check all that are true:

0.5 / 1 point

```
class MyModel(Model):
    def __init__(self, units=30, activation='relu', **kwargs):
        super().__init__(**kwargs)
        self.hidden1 = Dense(units, activation=activation)
        self.hidden2 = Dense(units, activation=activation)
        self.main_output = Dense(1)
        self.aux_output = Dense(1)

def call(self, inputs):
        input_A, input_B = inputs
        hidden1 = self.hidden1(input_B)
        hidden2 = self.hidden2(hidden1)
        concat = concatenate([input_A, hidden2])
        main_output = self.main_output(concat)
        aux_output = self.aux_output(hidden2)
        return main_output, aux_output
```

The code is incomplete in the sense that you can only initialize and construct your model, you cannot perform caining or inference.

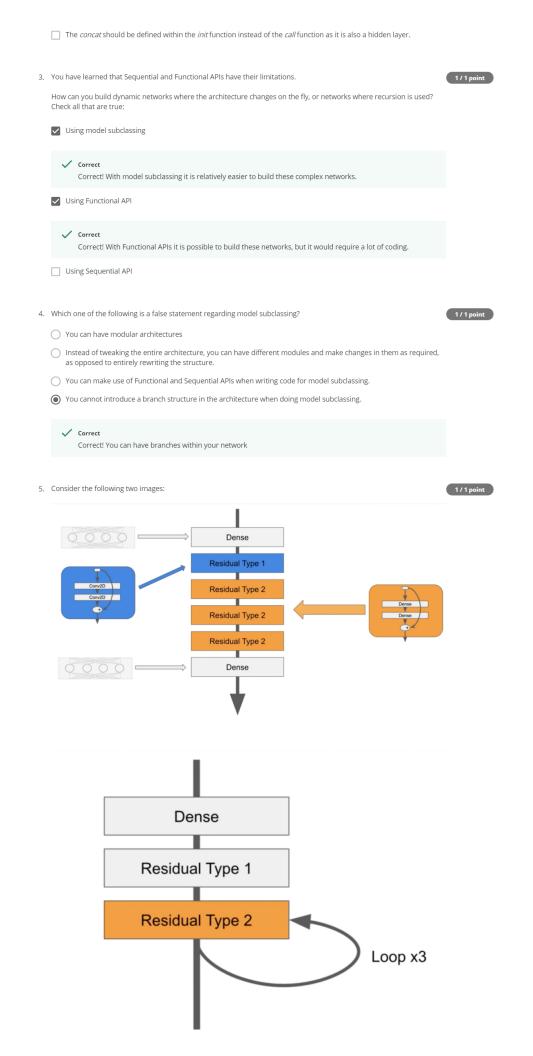
This should not be selected

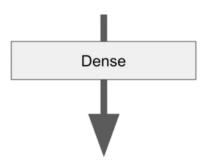
Incorrect! You can, as you inherit those functionalities from the *Model* (base) class.

The init function initializes the MyModel Class objects, as well as the attributes that are inherited from the Model Class.

✓ Correct!

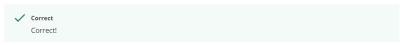
The output layers cannot give more than 1 result each.



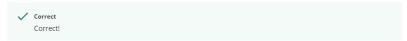


Check all that are true:

Each Residual block has two hidden layers and one add layer in it.



When you make a loop of Residual Type 2 blocks, each block could have the same weights.



You make a loop of Residual Type 2 blocks because you want to reduce the depth of the network (making it less complex of an architecture)



You loop Residual Type 2 (Dense layers) because you cannot make a loop of Conv2D layers (Residual Type 1)