

Keep Learning

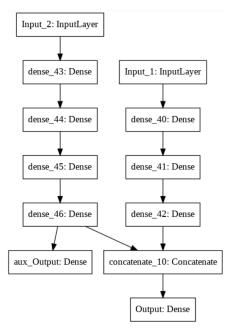
grade 100%

Custom Models

latest submission grade 100%

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:

1/1 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 init function initializes the MyModel Class objects, as well as the attributes that are inherited from the Model Class.

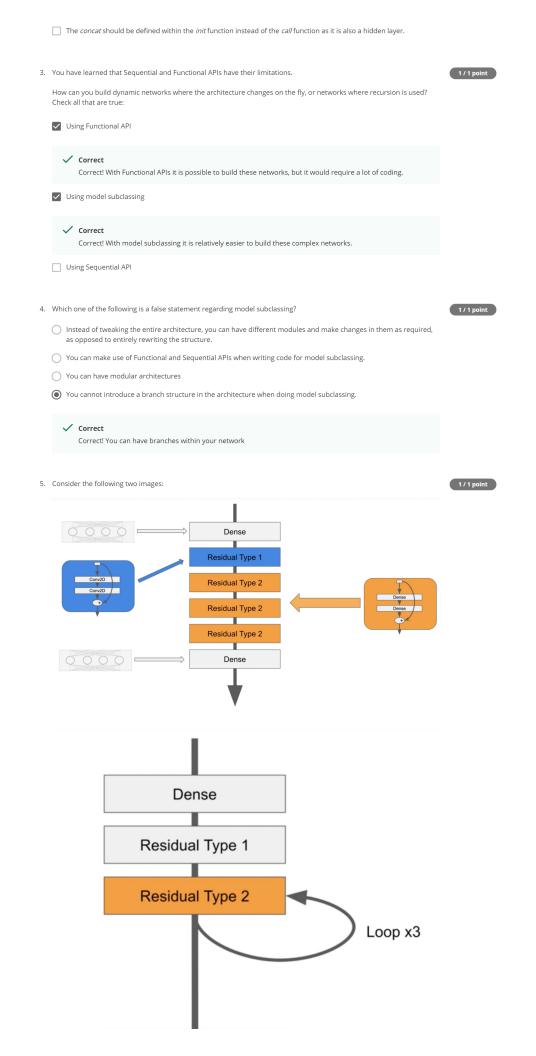
✓ Correct!

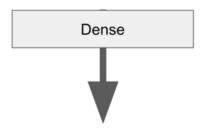
☐ The code is incomplete in the sense that you can only initialize and construct your model, you cannot perform training or inference.

▼ The output layers cannot give more than 1 result each.

✓ Correct

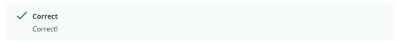
Correct! They each hold only 1 unit.



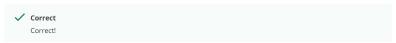


Check all that are true:

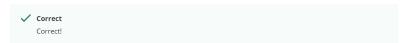
When you make a loop of *Residual Type 2* blocks, each block could have the same weights.



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



✓ 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)