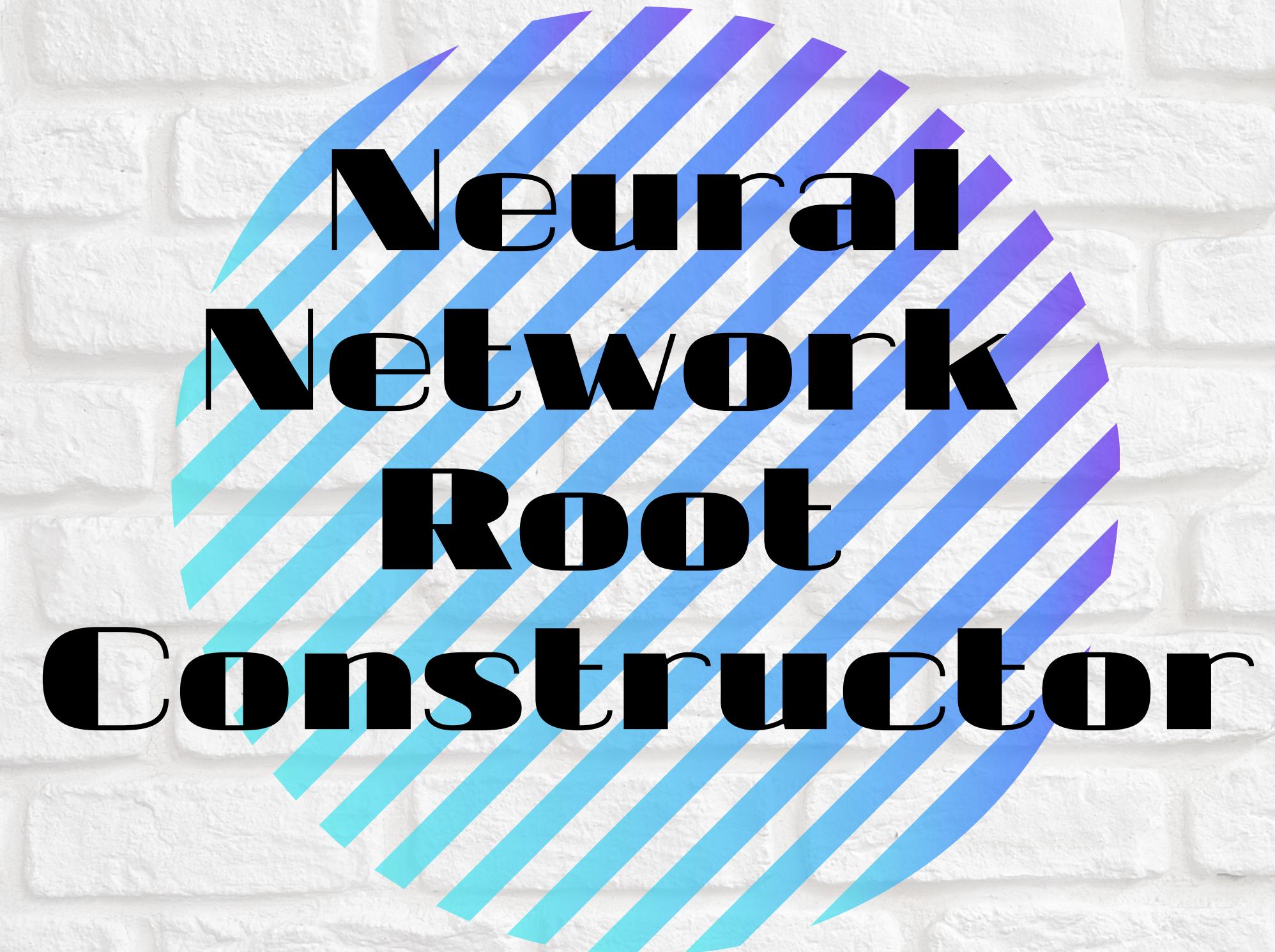
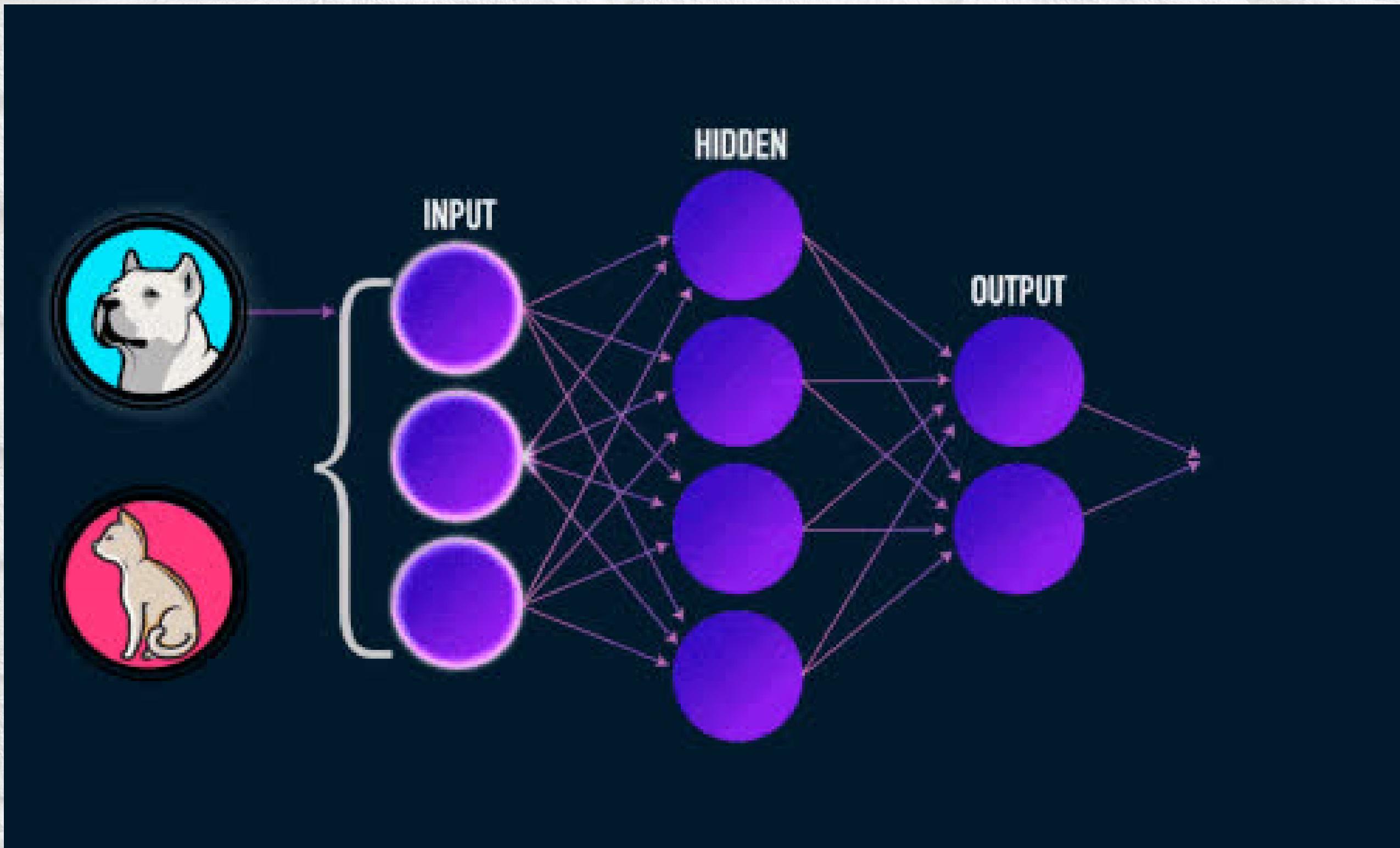


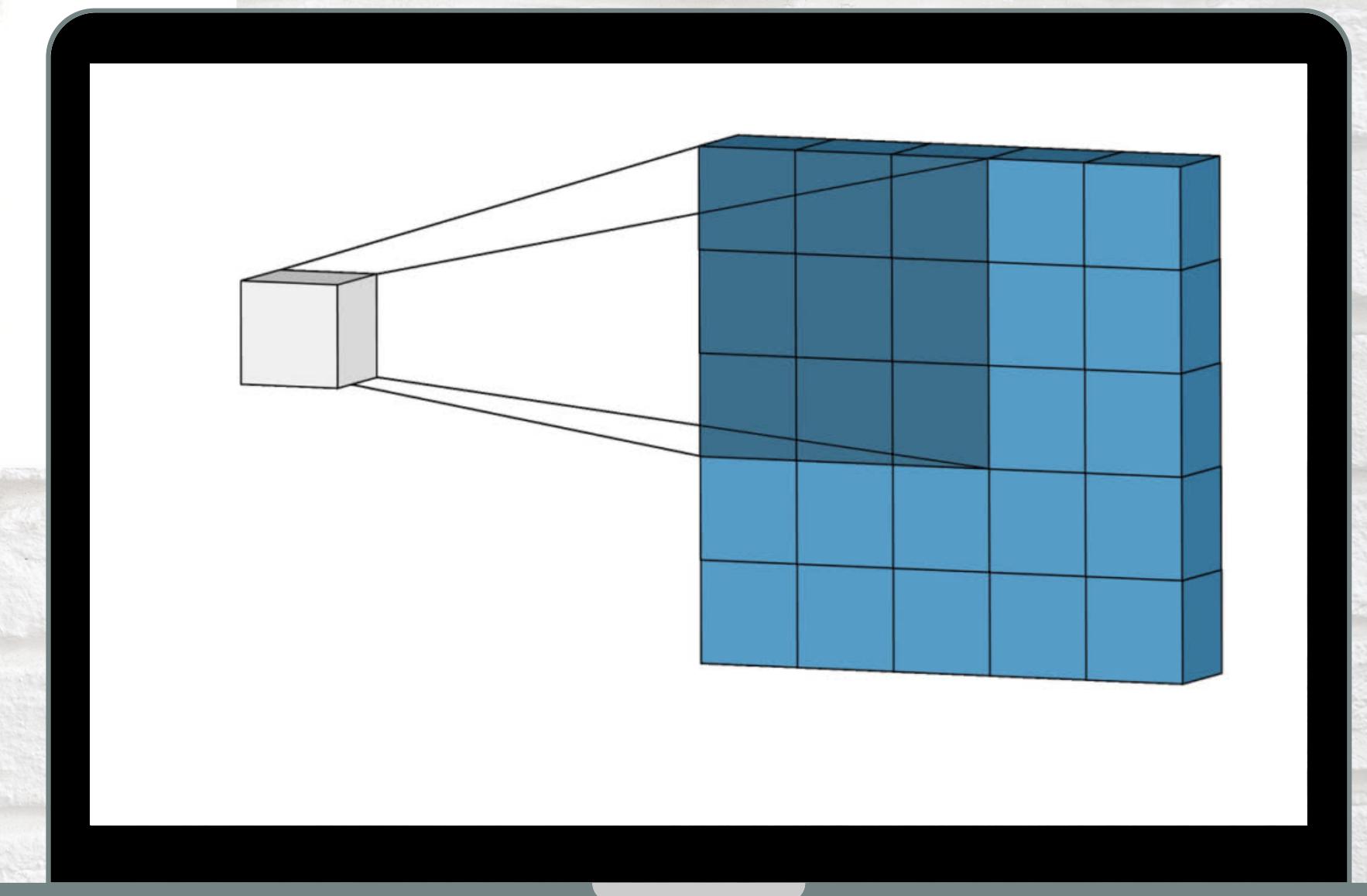
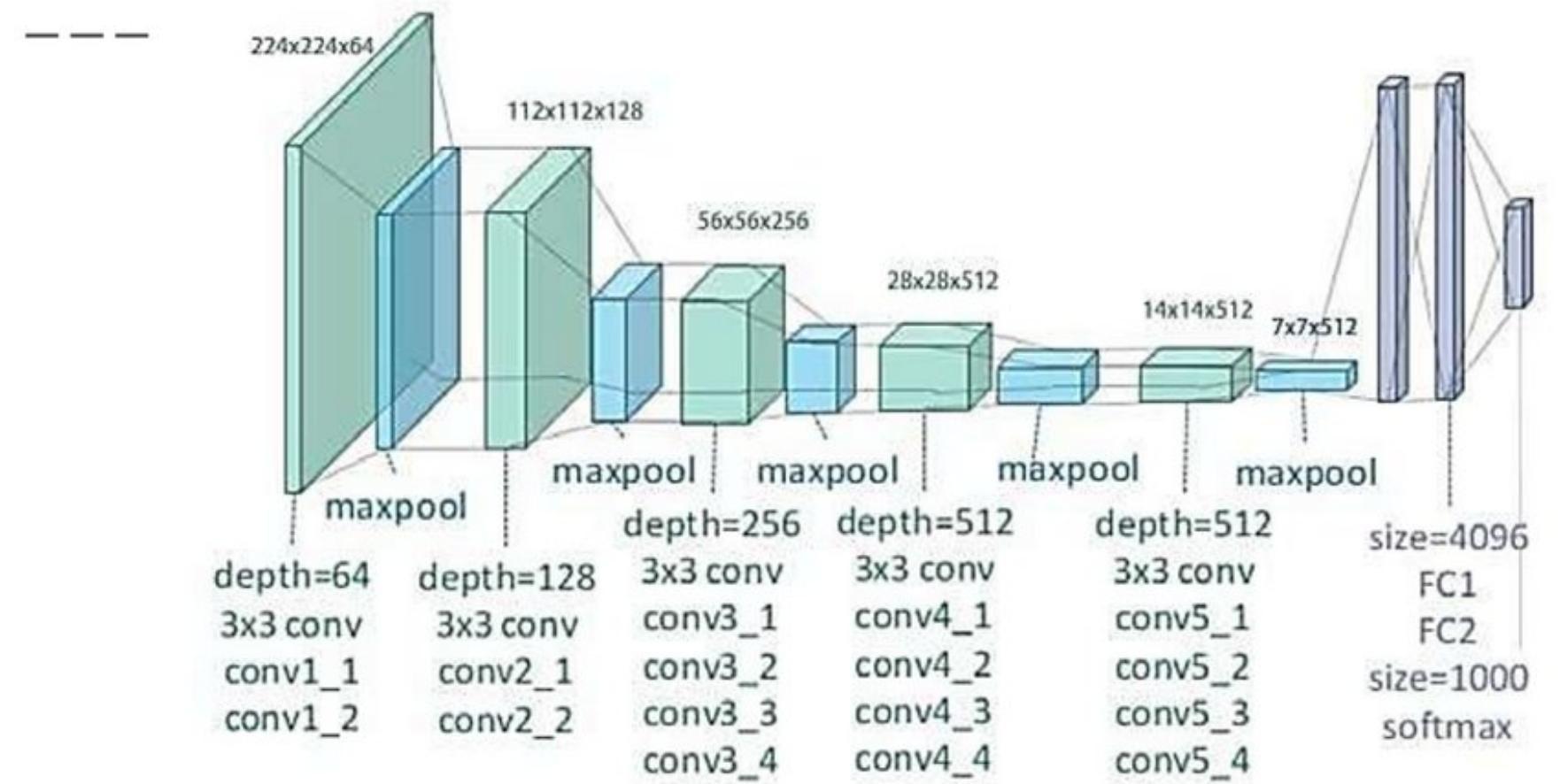
CREATE BY COMPANY
НУ ВЫ ЭТО, НУ ДАВАЙТЕ



ЧТО ТАКОЕ НЕЙРОСЕТИ И ЗАЧЕМ ДЕЛАТЬ ДЛЯ НИХ КОНСТРУКТОР

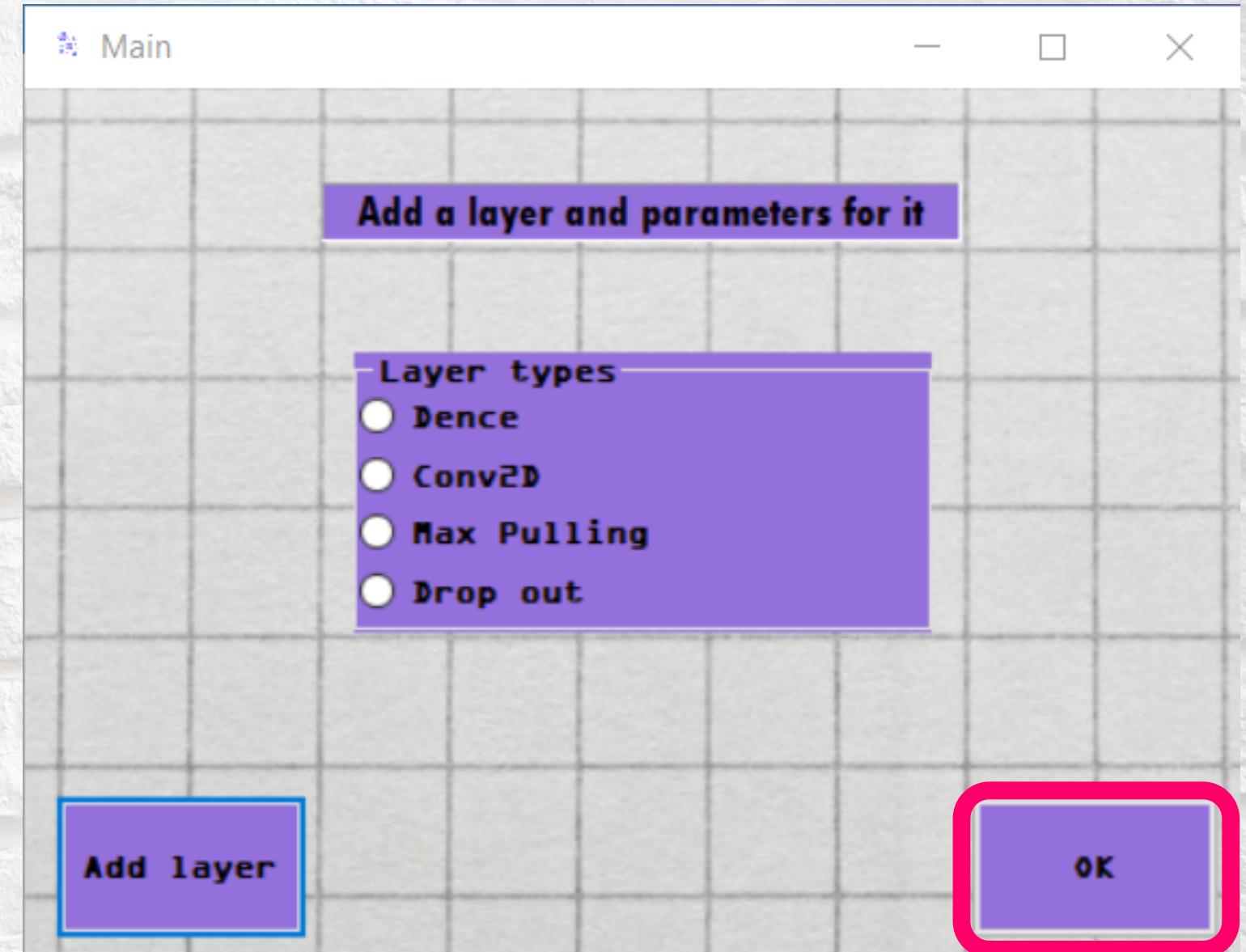
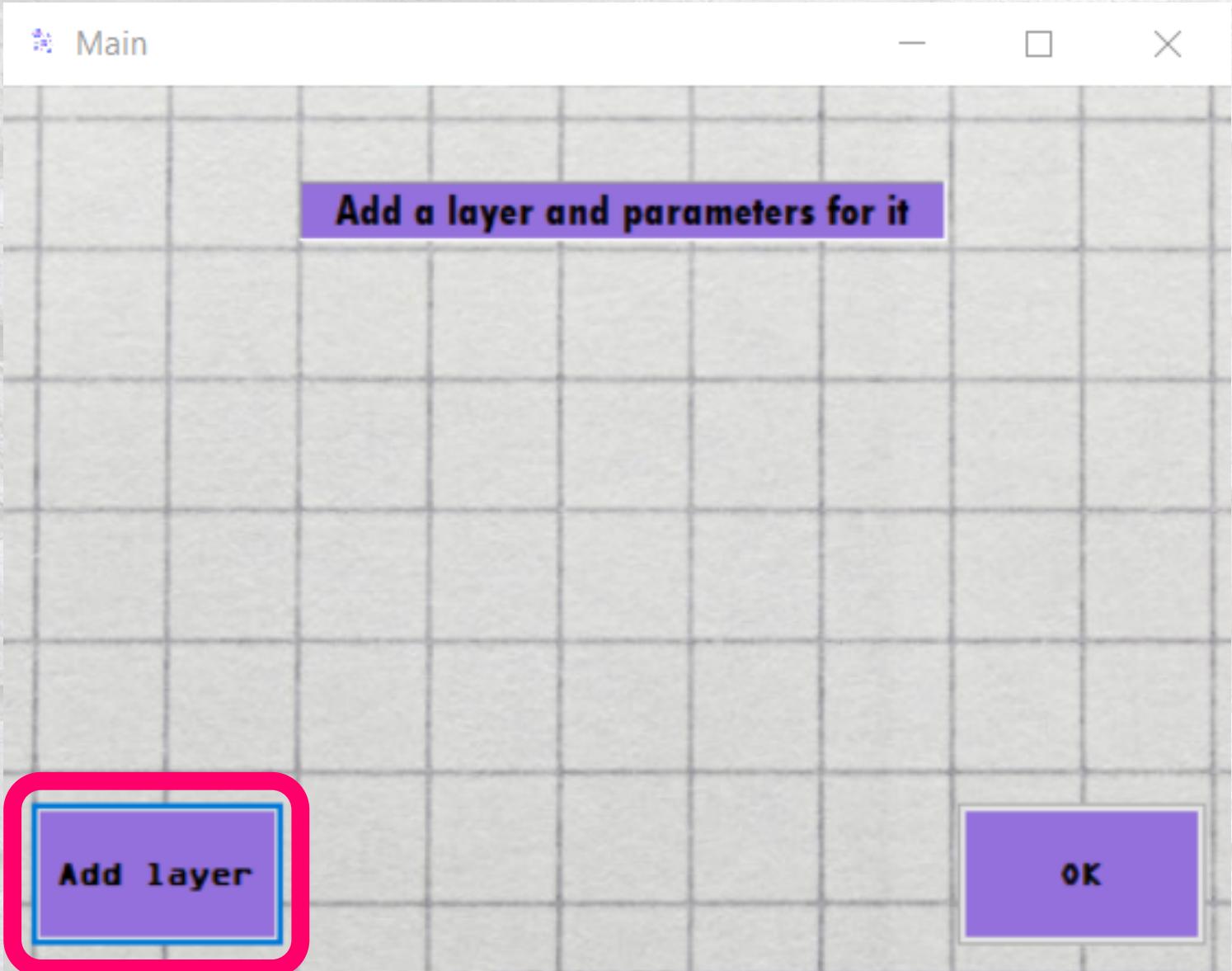


Архитектура VGG16



Принцип работы свёртки

МОЁ РЕШЕНИЕ



Conv2D

Dimension

X	Y
3	3

Number of feature cards 64

MaxPulling

Dimension

X	Y
2	2

OK

Linear

Number of neurons

DropOut

Pixel sfutdown probability 0.25



Loss

- binary cross entropy
- categorical crossentropy
- categorical hinge

Optimizer

- Adam
- Nadam
- SGD

Epochs 10

Package size 2

Rescale size

Y	Color chanals
200	3

OK

```
17     model = keras.Sequential([
18         Conv2D(64, (3, 3), padding='same', activation='relu'),
19         MaxPooling2D((2, 2), strides=2),
20         Conv2D(128, (3, 3), padding='same', activation='relu'),
21         MaxPooling2D((2, 2), strides=2),
22         Conv2D(256, (3, 3), padding='same', activation='relu'),
23         MaxPooling2D((2, 2), strides=2),
24         Conv2D(512, (3, 3), padding='same', activation='relu'),
25         MaxPooling2D((2, 2), strides=2),
26         Conv2D(512, (3, 3), padding='same', activation='relu'),
27         MaxPooling2D((2, 2), strides=2),
28         Flatten(),
29         Dense(128, activation='relu'),
30     ])
31     model.compile(optimizer='adam',
32                   loss='binary_crossentropy',
33                   metrics=['accuracy'])
34     batch_size = 2
35     input_shape = (200, 200, 3)
36     target_size = (200, 200)
37     datageden = ImageDataGenerator(rescale=1. / 255)
```

```
Epoch 7/10
19/19 [=====] - 8s 434ms/step - loss: 7.7169 - accuracy: 0.0000e+00 - val_loss: 7.6452 - val_accuracy: 0.0000e+00
Epoch 8/10
19/19 [=====] - 8s 444ms/step - loss: 7.7228 - accuracy: 0.0000e+00 - val_loss: 4.9586 - val_accuracy: 0.0000e+00
Epoch 9/10
19/19 [=====] - 8s 425ms/step - loss: 7.6451 - accuracy: 0.0000e+00 - val_loss: 7.6452 - val_accuracy: 0.0000e+00
Epoch 10/10
19/19 [=====] - 9s 457ms/step - loss: 7.4196 - accuracy: 0.0000e+00 - val_loss: 8.9885 - val_accuracy: 0.0000e+00
C:\Users\ivlad\AppData\Local\Programs\Python\Python38\lib\site-packages\tensorflow\python\keras\engine\training.py:1877: UserWarning: `Model.evaluate_generator` is deprecated and '
warnings.warn(`Model.evaluate_generator` is deprecated and '
Примерная ошибка равна: 0.0
```

Сгенерированная модель обучилась)

Над проектом работал
команды

"Ну вы это, ну давайте"

Спасибо за внимание)