

```
# -*- coding: utf-8 -*-
```

```
"""Add layers.ipynb
```

Automatically generated by Colaboratory.

Original file is located at

[https://colab.research.google.com/drive/1AachaCNnnIUN-EJYQWMux\\_HP2UUpMwI8](https://colab.research.google.com/drive/1AachaCNnnIUN-EJYQWMux_HP2UUpMwI8)

```
"""
```

```
def load_CNN(output_size):
```

```
K.clear_session()
```

```
model = Sequential()
```

```
model.add(Dropout(0.4,input_shape=(224, 224, 3)))
```

```
model.add(Conv2D(256, (5, 5),input_shape=(224, 224, 3),activation='relu'))
```

```
model.add(MaxPool2D(pool_size=(2, 2)))
```

```
#model.add(BatchNormalization())
```

```
model.add(Conv2D(128, (3, 3), activation='relu'))
```

```
model.add(MaxPool2D(pool_size=(2, 2)))
```

```
#model.add(BatchNormalization())
```

```
model.add(Conv2D(64, (3, 3), activation='relu'))
```

```
model.add(MaxPool2D(pool_size=(2, 2)))
```

```
#model.add(BatchNormalization())
```

```
model.add(Flatten())
```

```
model.add(Dense(512, activation='relu'))
```

```
model.add(Dropout(0.3))
```

```
model.add(Dense(256, activation='relu'))
```

```
model.add(Dropout(0.3))
```

```
model.add(Dense(128, activation='relu'))
```

```
model.add(Dropout(0.3))
```

```
model.add(Dense(output_size, activation='softmax'))
```

```
return model
```