Model Development Phase Template

Date	15 March 2024
Team ID	SWTID1720425899
Project Title	CovidVision: Advanced COVID-19 Detection from Lung X-rays with Deep Learning
Maximum Marks	10 Marks

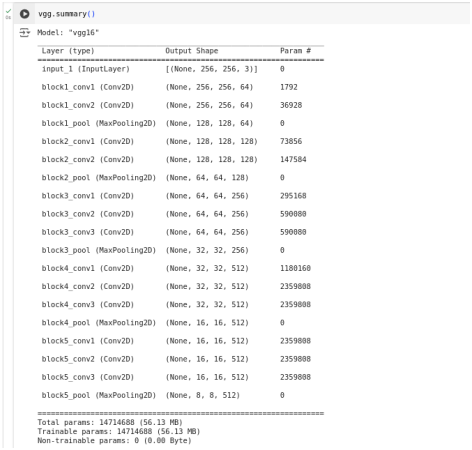
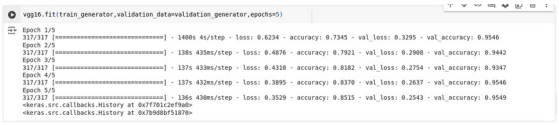
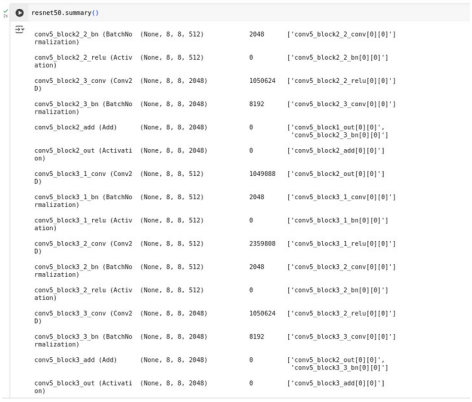
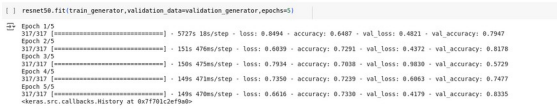
Initial Model Training Code, Model Validation and Evaluation Report

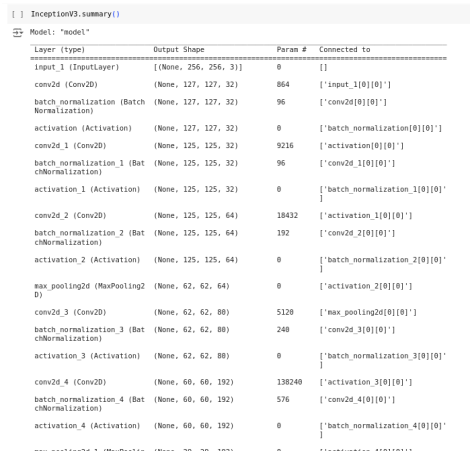
The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

Initial Model Training Code:

```
[ ] from tensorflow.keras.applications.inception_v3 import InceptionV3
    from tensorflow.keras.layers import Dense,Flatten
    from tensorflow.keras.models import Model

[ ] InceptionV3 = InceptionV3(include_top=False,input_shape=(256,256,3))

    Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/inception_v3/inception_v3_weights_tf_dim_ordering_tf_kernels_notop.h5
    87910968/87910968 [==============================] - 1s 0us/step

[ ] x = Flatten()(InceptionV3.output)

[ ] output = Dense(1, activation='sigmoid')(x)

[ ] InceptionV3 = Model(InceptionV3.input,output)

[ ] InceptionV3.summary()

    Show hidden output

[ ] InceptionV3.compile(loss='binary_crossentropy',optimizer='adam',metrics=['accuracy'])
```

Model Validation and Evaluation Report:

Model	Summary	Training and Validation Performance Metrics
VGG16		
ResNet50		

Inception V3		
Xception