```
Epoch 1/15
13/13 [==============================] - 11s 846ms/step - loss: 149.9277 - accuracy: 0.3413 - val_loss: 3.3904 - val_accuracy: 0.3525
Epoch 2/15
13/13 [==============================] - 11s 836ms/step - loss: 1.6374 - accuracy: 0.3562 - val_loss: 1.4027 - val_accuracy: 0.3250
Epoch 3/15
13/13 [==============================] - 11s 843ms/step - loss: 1.0568 - accuracy: 0.4575 - val_loss: 1.0211 - val_accuracy: 0.4950
Epoch 4/15
13/13 [==============================] - 11s 845ms/step - loss: 0.9368 - accuracy: 0.5512 - val_loss: 1.0078 - val_accuracy: 0.5375
Epoch 5/15
13/13 [==============================] - 11s 834ms/step - loss: 0.7963 - accuracy: 0.6406 - val_loss: 0.9307 - val_accuracy: 0.6175
Epoch 6/15
13/13 [==============================] - 11s 848ms/step - loss: 0.6709 - accuracy: 0.7188 - val_loss: 0.9669 - val_accuracy: 0.6000
Epoch 7/15
13/13 [==============================] - 11s 842ms/step - loss: 0.6004 - accuracy: 0.7575 - val_loss: 1.0661 - val_accuracy: 0.6000
Epoch 8/15
13/13 [==============================] - 11s 843ms/step - loss: 0.5111 - accuracy: 0.8044 - val_loss: 1.1015 - val_accuracy: 0.5825
Epoch 9/15
13/13 [==============================] - 11s 847ms/step - loss: 0.4185 - accuracy: 0.8456 - val_loss: 1.3281 - val_accuracy: 0.6225
Epoch 10/15
13/13 [==============================] - 11s 838ms/step - loss: 0.3361 - accuracy: 0.8700 - val_loss: 1.3199 - val_accuracy: 0.5925
Epoch 11/15
13/13 [==============================] - 11s 847ms/step - loss: 0.3398 - accuracy: 0.8794 - val_loss: 1.3018 - val_accuracy: 0.5725
Epoch 12/15
13/13 [==============================] - 11s 847ms/step - loss: 0.2658 - accuracy: 0.9025 - val_loss: 1.5817 - val_accuracy: 0.6125
Epoch 13/15
13/13 [==============================] - 11s 850ms/step - loss: 0.1847 - accuracy: 0.9362 - val_loss: 1.5858 - val_accuracy: 0.6050
Epoch 14/15
13/13 [==============================] - 11s 824ms/step - loss: 0.1370 - accuracy: 0.9525 - val_loss: 1.8738 - val_accuracy: 0.6300
Epoch 15/15
13/13 [==============================] - 11s 826ms/step - loss: 0.0901 - accuracy: 0.9762 - val_loss: 1.7667 - val_accuracy: 0.6375
* Evaluating basic_model
30/30 [==============================] - 6s 207ms/step - loss: 1.7296 - accuracy: 0.6292
* Confusion Matrix for basic_model
30/30 [==============================] - 6s 211ms/step
[[1097  415  262]
 [ 269  727  237]
 [  99  141  591]]
```
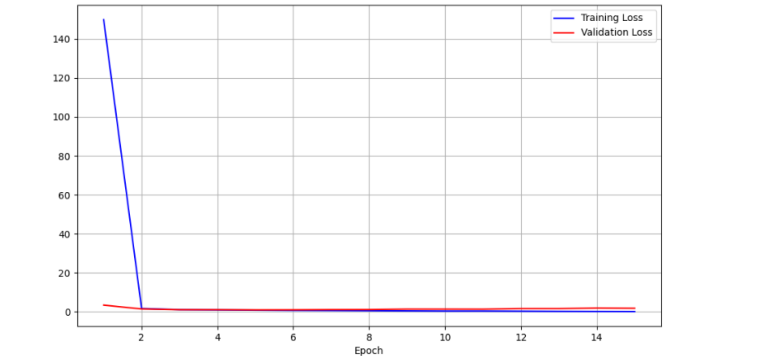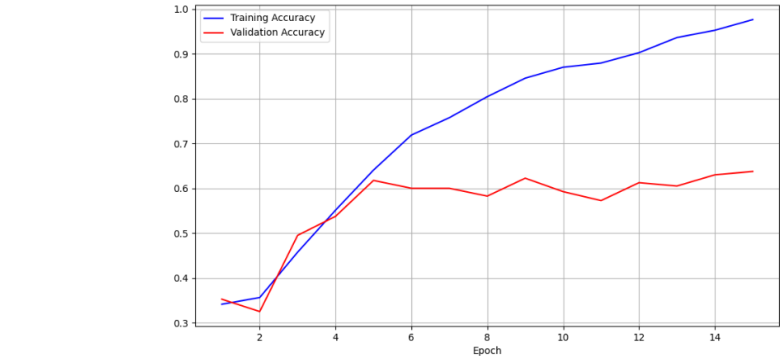
```
* Model saved as basic_model_15_epochs_timestamp_1691527971.keras
Model: "sequential"

_____
 Layer (type)                Output Shape              Param #
=================================================================
 conv2d (Conv2D)             (None, 148, 148, 32)      896

 max_pooling2d (MaxPooling2D  (None, 74, 74, 32)       0
 )

 conv2d_1 (Conv2D)           (None, 72, 72, 64)        18496

 max_pooling2d_1 (MaxPooling  (None, 36, 36, 64)       0
 2D)

 conv2d_2 (Conv2D)           (None, 34, 34, 128)       73856

 max_pooling2d_2 (MaxPooling  (None, 17, 17, 128)      0
 2D)

 flatten (Flatten)           (None, 36992)             0

 dense (Dense)               (None, 128)               4735104

 dense_1 (Dense)             (None, 3)                 387

=================================================================
Total params: 4,828,739
Trainable params: 4,828,739
Non-trainable params: 0
_____
```