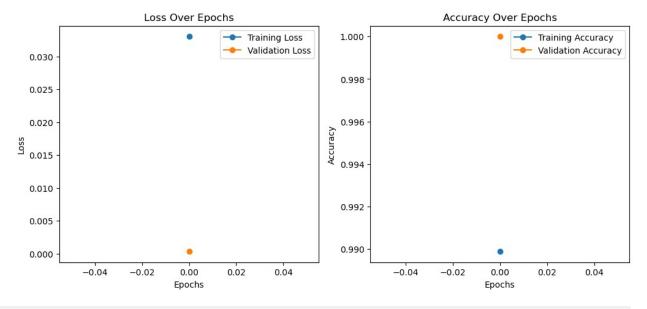
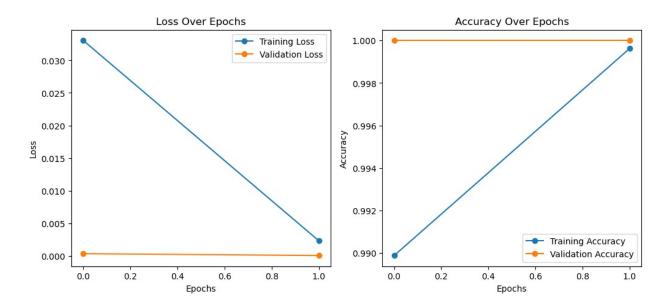
```
import tensorflow as tf
from tensorflow.keras.applications import MobileNetV2
from tensorflow.keras.layers import Dense, GlobalAveragePooling2D,
Dropout
from tensorflow.keras.models import Model
from tensorflow.keras.preprocessing.image import ImageDataGenerator
import matplotlib.pyplot as plt
# Define a callback to store loss & accuracy after each epoch
class PerformancePlotCallback(tf.keras.callbacks.Callback):
    def on_train_begin(self, logs=None):
        self.epochs = []
        self.train loss = []
        self.val loss = []
        self.train acc = []
        self.val acc = []
    def on epoch end(self, epoch, logs=None):
        self.epochs.append(epoch)
        self.train loss.append(logs["loss"])
        self.val loss.append(logs["val_loss"])
        self.train acc.append(logs["accuracy"])
        self.val acc.append(logs["val accuracy"])
        # Plot loss & accuracy
        plt.figure(figsize=(12, 5))
        # Loss Plot
        plt.subplot(1, 2, 1)
        plt.plot(self.epochs, self.train loss, label="Training Loss",
marker='o')
        plt.plot(self.epochs, self.val loss, label="Validation Loss",
marker='o')
        plt.xlabel("Epochs")
        plt.ylabel("Loss")
        plt.title("Loss Over Epochs")
        plt.legend()
        # Accuracy Plot
        plt.subplot(1, 2, 2)
        plt.plot(self.epochs, self.train acc, label="Training
Accuracy", marker='o')
        plt.plot(self.epochs, self.val acc, label="Validation")
Accuracy", marker='o')
        plt.xlabel("Epochs")
        plt.ylabel("Accuracy")
        plt.title("Accuracy Over Epochs")
        plt.legend()
        plt.show()
```

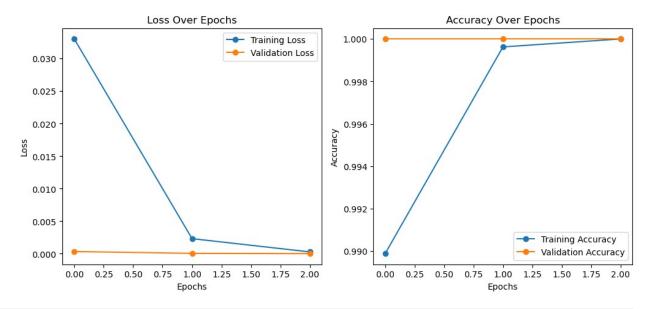
```
# Add callback to the training process
plot callback = PerformancePlotCallback()
# Load MobileNetV2
base model = MobileNetV2(weights="imagenet", include top=False,
input shape=(224, 224, 3))
base model.trainable = False # Freeze pretrained layers
# Add new classification layers
x = base model.output
x = GlobalAveragePooling2D()(x)
x = Dense(128, activation="relu")(x)
x = Dropout(0.3)(x) # Prevent overfitting
output = Dense(5, activation="softmax")(x) # 5 categories
model = Model(inputs=base model.input, outputs=output)
model.compile(optimizer="adam", loss="categorical_crossentropy",
metrics=["accuracy"])
# Augment dataset
datagen = ImageDataGenerator(
    rescale=1.0/255,
    validation split=0.2, # 80% training, 20% validation
    rotation range=20,
    width shift range=0.2,
    height shift range=0.2,
    horizontal flip=True,
    brightness range=[0.7, 1.3],
    zoom range=0.2
)
train generator = datagen.flow from directory("dataset",
target size=(224, 224), batch size=32, subset="training")
val_generator = datagen.flow_from_directory("dataset",
target size=(224, 224), batch size=32, subset="validation")
# Train Model
model.fit(train generator, validation data=val generator, epochs=15,
callbacks=[plot callback] )
Downloading data from https://storage.googleapis.com/tensorflow/keras-
applications/mobilenet v2/
mobilenet v2 weights tf dim ordering tf kernels 1.0 224 no top.h5
                                  2s Ous/step
9406464/9406464 —
Found 8010 images belonging to 5 classes.
Found 2000 images belonging to 5 classes.
C:\Users\ENVY\anaconda3\envs\ocv\Lib\site-packages\keras\src\trainers\
data_adapters\py_dataset_adapter.py:121: UserWarning: Your `PyDataset`
```



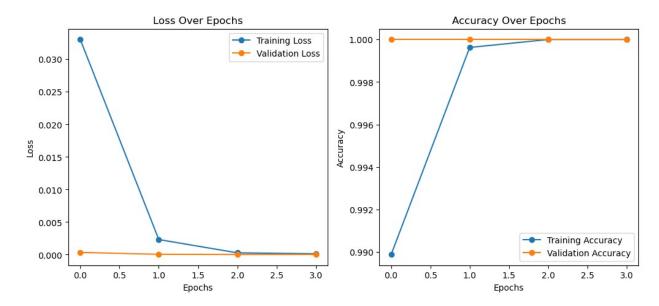


```
251/251 — 298s 1s/step - accuracy: 0.9994 - loss: 0.0045 - val_accuracy: 1.0000 - val_loss: 5.6569e-05

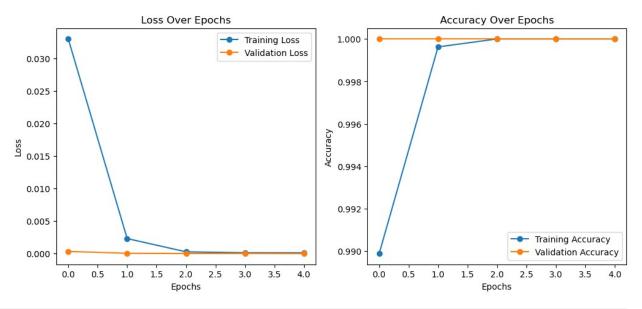
Epoch 3/15
251/251 — 0s 971ms/step - accuracy: 1.0000 - loss: 2.9934e-04
```



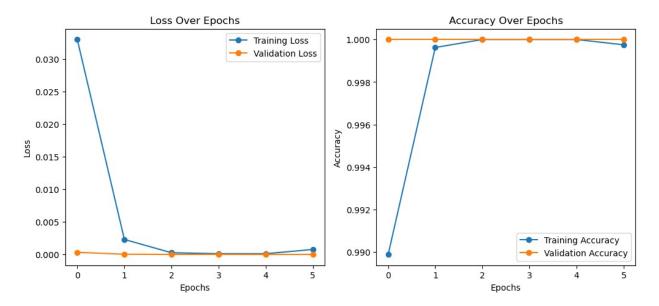
```
251/251 ______ 306s ls/step - accuracy: 1.0000 - loss: 2.9928e-04 - val_accuracy: 1.0000 - val_loss: 2.1595e-05 Epoch 4/15 _____ 0s 940ms/step - accuracy: 1.0000 - loss: 1.4407e-04
```

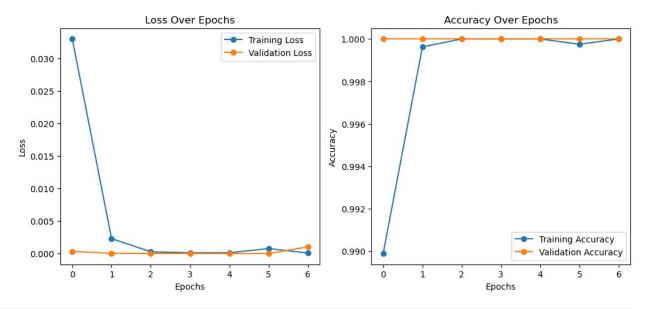


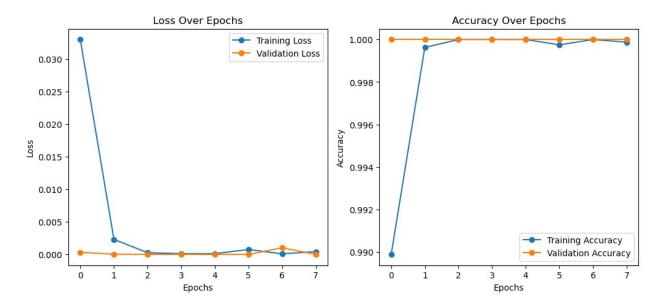
```
251/251 — 298s 1s/step - accuracy: 1.0000 - loss: 1.4405e-04 - val_accuracy: 1.0000 - val_loss: 2.6954e-05
Epoch 5/15
251/251 — 0s 953ms/step - accuracy: 1.0000 - loss: 1.5038e-04
```



```
251/251 ______ 298s 1s/step - accuracy: 1.0000 - loss: 1.5032e-04 - val_accuracy: 1.0000 - val_loss: 8.2568e-06 Epoch 6/15 _____ 0s 953ms/step - accuracy: 0.9997 - loss: 7.6511e-04
```

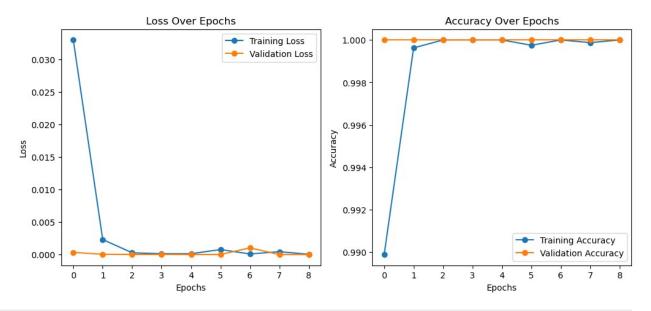


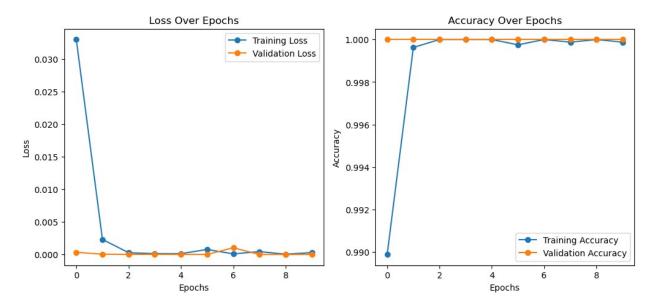




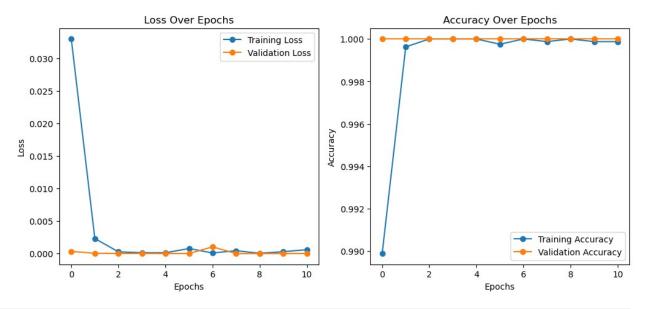
```
251/251 — 294s 1s/step - accuracy: 0.9994 - loss: 0.0015 - val_accuracy: 1.0000 - val_loss: 4.7252e-06

Epoch 9/15
251/251 — 0s 952ms/step - accuracy: 1.0000 - loss: 4.7576e-05
```



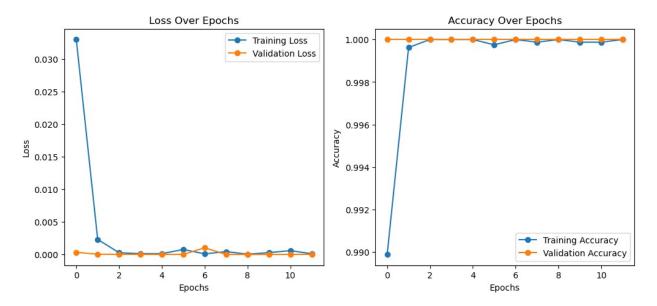


```
251/251 ______ 302s 1s/step - accuracy: 1.0000 - loss: 5.1033e-05 - val_accuracy: 1.0000 - val_loss: 5.6234e-06 Epoch 11/15 _____ 0s 947ms/step - accuracy: 1.0000 - loss: 1.8032e-04
```

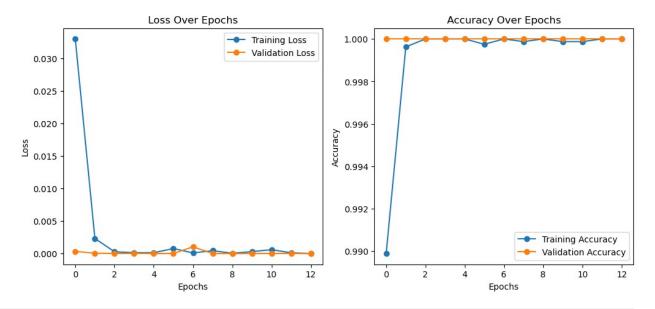


```
251/251 ______ 296s 1s/step - accuracy: 1.0000 - loss: 1.8200e-04 - val_accuracy: 1.0000 - val_loss: 2.4058e-05

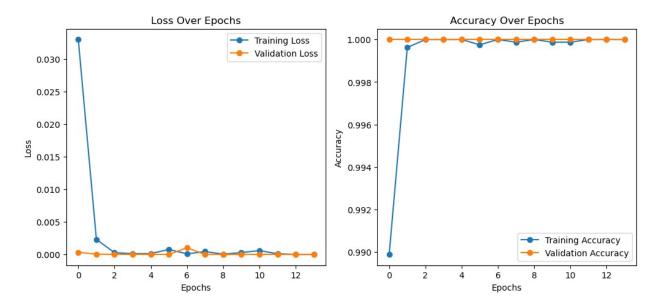
Epoch 12/15 _____ 0s 946ms/step - accuracy: 1.0000 - loss: 1.8922e-04
```



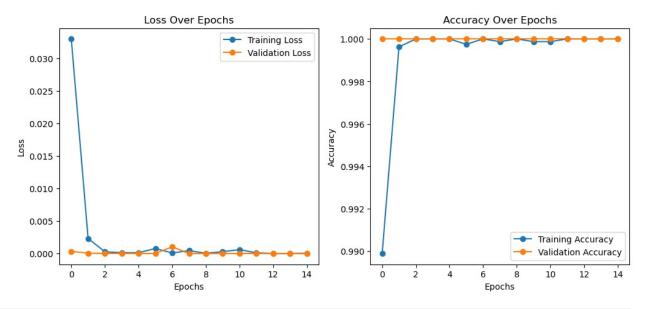
```
251/251 ______ 299s 1s/step - accuracy: 1.0000 - loss: 1.8895e-04 - val_accuracy: 1.0000 - val_loss: 2.5982e-05 Epoch 13/15 _____ 0s 941ms/step - accuracy: 1.0000 - loss: 9.7957e-06
```



```
251/251 — 295s 1s/step - accuracy: 1.0000 - loss: 9.7939e-06 - val_accuracy: 1.0000 - val_loss: 3.0064e-07 Epoch 14/15  
251/251 — 0s 934ms/step - accuracy: 1.0000 - loss: 2.1941e-05
```



```
251/251 — 293s 1s/step - accuracy: 1.0000 - loss: 2.1953e-05 - val_accuracy: 1.0000 - val_loss: 3.5717e-07 Epoch 15/15  
251/251 — 0s 973ms/step - accuracy: 1.0000 - loss: 1.3655e-04
```



```
251/251 ______ 305s ls/step - accuracy: 1.0000 - loss: 1.3625e-04 - val_accuracy: 1.0000 - val_loss: 5.1163e-07 
<keras.src.callbacks.history.History at 0x213c24bb6d0> 
# Save Model model.save("object_detector.h5") 
print("Model trained and saved successfully!")
```

```
WARNING:absl:You are saving your model as an HDF5 file via
`model.save()` or `keras.saving.save model(model)`. This file format
is considered legacy. We recommend using instead the native Keras
format, e.g. `model.save('my model.keras')` or
`keras.saving.save model(model, 'my model.keras')`.
Model trained and saved successfully!
model.save("mymodel.keras")
print("Model trained and saved successfully!")
Model trained and saved successfully!
import tensorflow as tf
# Load trained model
model = tf.keras.models.load model("object detector.h5")
# Check validation accuracy
val loss, val acc = model.evaluate(val generator)
print(f"Validation Accuracy: {val_acc * 100:.2f}%")
print(f"Validation Loss: {val loss:.4f}")
WARNING:absl:Compiled the loaded model, but the compiled metrics have
yet to be built. `model.compile metrics` will be empty until you train
or evaluate the model.
63/63 -
                   ------ 68s 1s/step - accuracy: 1.0000 - loss:
3.4388e-06
Validation Accuracy: 100.00%
Validation Loss: 0.0000
converter = tf.lite.TFLiteConverter.from keras model(model)
tflite model = converter.convert()
# Save the model
with open("object_detector.tflite", "wb") as f:
    f.write(tflite model)
print("Model converted to TensorFlow Lite successfully!")
INFO:tensorflow:Assets written to: C:\Users\ENVY\AppData\Local\Temp\
tmpy67pxpe4\assets
INFO:tensorflow:Assets written to: C:\Users\ENVY\AppData\Local\Temp\
tmpy67pxpe4\assets
Saved artifact at 'C:\Users\ENVY\AppData\Local\Temp\tmpy67pxpe4'. The
following endpoints are available:
* Endpoint 'serve'
  args 0 (POSITIONAL ONLY): TensorSpec(shape=(None, 224, 224, 3),
dtype=tf.float32, name='input layer')
```

```
Output Type:
  TensorSpec(shape=(None, 5), dtype=tf.float32, name=None)
Captures:
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Model converted to TensorFlow Lite successfully!
```