```
In [2]: import tensorflow as tf
        # Define constants
        IMAGE SIZE = 256
        BATCH SIZE = 32
        # Load the dataset
        test ds = tf.keras.preprocessing.image dataset from directory(
            "PlantVillage", # Change this path if needed
            shuffle=False,
            image size=(IMAGE SIZE, IMAGE SIZE),
            batch size=BATCH SIZE
        # Get class names
        class names = test ds.class names
        # Import required libraries
        import numpy as np
        import tensorflow as tf
        from tensorflow.keras.models import load model
        from sklearn.metrics import classification report, confusion matrix, roc cur
        import seaborn as sns
        import matplotlib.pyplot as plt
        # Load the trained model
        model version = 1 # Change if using a different saved version
        model path = f"../models/{model version}"
        model = load model(model path)
        # Load test dataset
        # Ensure 'test ds' is available in the same format as used during training
        y true = []
        y pred = []
        y pred prob = []
        for images, labels in test_ds:
            preds = model.predict(images)
            y true.extend(labels.numpy()) # Actual labels
            y pred.extend(np.argmax(preds, axis=1))
            y pred prob.extend(preds)# Predicted labels
        # Convert lists to NumPy arrays
        y true = np.array(y true)
        y pred = np.array(y pred)
        y_pred_prob = np.array(y_pred_prob)
        # Get class names
        class_names = ['Tomato_Bacterial_spot',
         'Tomato Early blight',
         'Tomato Late blight',
         'Tomato Leaf Mold',
         'Tomato Septoria leaf spot',
         'Tomato Spider mites Two spotted spider mite',
```

```
'Tomato Target Spot',
 'Tomato Tomato YellowLeaf Curl Virus',
 'Tomato Tomato mosaic virus',
 'Tomato healthy']
# 1∏ Precision and F1 Score
# -----
precision = precision score(y true, y pred, average='weighted')
recall = recall score(y true, y pred, average='weighted')
f1 = f1 score(y true, y pred, average='weighted')
print(f"□ Precision: {precision:.4f}")
print(f"[] Recall: {recall:.4f}")
print(f"[] F1 Score: {f1:.4f}")
# -----
# 2∏ Confusion Matrix
# -----
cm = confusion matrix(y true, y pred)
plt.figure(figsize=(10,7))
sns.heatmap(cm, annot=True, fmt='d', cmap='Blues', xticklabels=class names,
plt.xlabel("Predicted Label")
plt.ylabel("Actual Label")
plt.title("Confusion Matrix")
plt.show()
# -----
# 3∏ ROC Curve & AUC
# ------
# Convert labels to one-hot encoding for multi-class ROC curve
y true one hot = tf.keras.utils.to categorical(y true, num classes=len(class
y pred prob = model.predict(test ds) # Get probability outputs
plt.figure(figsize=(10, 7))
for i in range(len(class names)):
   fpr, tpr, _ = roc_curve(y_true_one_hot[:, i], y_pred_prob[:, i])
   auc_score = auc(fpr, tpr)
   plt.plot(fpr, tpr, label=f'{class_names[i]} (AUC = {auc score:.2f})')
plt.plot([0, 1], [0, 1], 'k--') # Diagonal line (random model)
plt.xlabel("False Positive Rate")
plt.ylabel("True Positive Rate")
plt.title("ROC Curve")
plt.legend()
plt.show()
# -----
# 4□ Classification Report
# -----
print("□ Classification Report:\n")
print(classification report(y true, y pred, target names=class names))
```

Found 16011 files belonging to 10 classes.

WARNING:tensorflow:Using a while\_loop for converting RngReadAndSkip cause there is no registered converter for this op.

WARNING:tensorflow:Using a while\_loop for converting Bitcast cause there is no registered converter for this op.

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WARNING:tensorflow:Using a while\_loop for converting StatelessRandomUniformV 2 cause there is no registered converter for this op.

WARNING:tensorflow:Using a while\_loop for converting ImageProjectiveTransfor mV3 cause there is no registered converter for this op.

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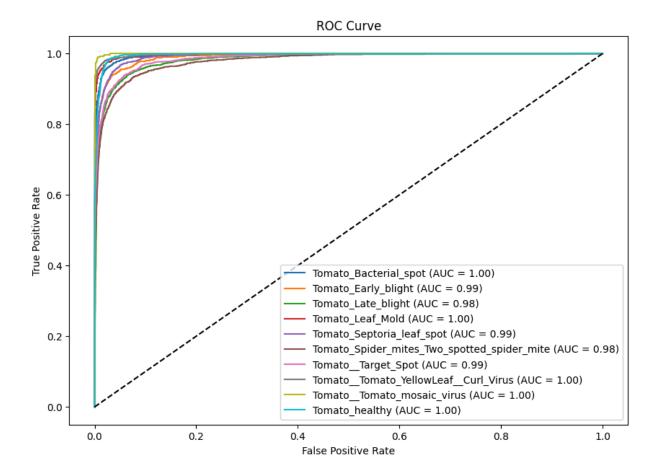
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1/1	[======]	-	0s	47ms/step
1/1	[======]	-	0s	32ms/step
1/1	[======]	-	0s	48ms/step
1/1	[======]	-	0s	34ms/step
1/1	[=====]	-	0s	33ms/step
1/1	[======]	-	0s	37ms/step
1/1	[======]	-	0s	36ms/step
1/1	[======]	-	0s	25ms/step
1/1	[======]	-	0s	32ms/step
1/1	[======]	-	0s	35ms/step
1/1	[======]	-	0s	32ms/step
1/1	[======]	-	0s	47ms/step
1/1	[======]	-	0s	34ms/step
1/1	[======]	-	0s	32ms/step
1/1	[======]	-	0s	27ms/step
1/1	[======]	-	0s	32ms/step
1/1	[======]	-	0s	26ms/step
1/1	[======]	-	1s	529ms/step
ПРі	recision: 0.8864			

□ Precision: 0.8864
□ Recall: 0.8771
□ F1 Score: 0.8773



501/501 [=======] - 13s 26ms/step



## ☐ Classification Report:

suppo	rt	precision	recall	f1-score
2127	Tomato_Bacterial_spot	0.98	0.80	0.88
2127	Tomato_Early_blight	0.85	0.83	0.84
1000	Tomato_Late_blight	0.89	0.80	0.84
1909	Tomato_Leaf_Mold	0.94	0.90	0.92
952	Tomato_Septoria_leaf_spot	0.77	0.95	0.85
1771 Tomato 1676	o_Spider_mites_Two_spotted_spider_mite	0.89	0.75	0.81
1404	TomatoTarget_Spot	0.75	0.89	0.81
	TomatoTomato_YellowLeafCurl_Virus	0.98	0.95	0.96
3208	TomatoTomato_mosaic_virus	0.81	0.98	0.89
373	Tomato_healthy	0.83	0.97	0.90
1591				
16011	accuracy			0.88
16011	macro avg	0.87	0.88	0.87
16011	weighted avg	0.89	0.88	0.88

In [ ]: