```
In [6]: 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 = 5 # 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))
```

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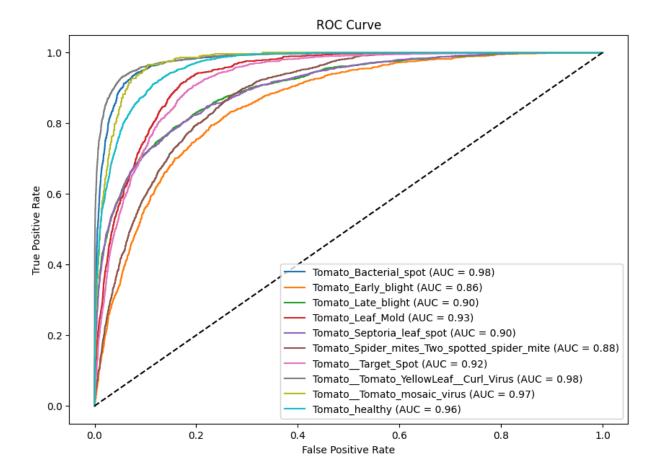
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 $\ \square$  Precision: 0.6386

☐ Recall: 0.6294 ☐ F1 Score: 0.6227

		Confusion Matrix											
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	Tomato_Early_blight -	56	229	140	41	80	111	214	104	2	23	- 2500	0
	Tomato_Late_blight -	66	144	953	94	154	150	169	47	6	126	- 2000	0
	Tomato_Leaf_Mold -	0	32	11	539	248	79	7	10	17	9	- 2000	U
Label	Tomato_Septoria_leaf_spot -	49	21	38	211	1136	16	108	51	26	115	- 1500	- 1500
Actual Label	Tomato_Spider_mites_Two_spotted_spider_mite -	1	74	55	92	201	475	493	16	19	250		
	TomatoTarget_Spot -	0	8	8	43	97	59	868	1	9	311	- 1000	0
	TomatoTomato_YellowLeafCurl_Virus -	74	63	56	14	79	60	17	2845	0	0		
	TomatoTomato_mosaic_virus -	0	0	0	142	101	0	0	0	130	0	- 500	
	Tomato_healthy -	5	0	4	145	45	1	36	0	32	1323		
		Tomato_Bacterial_spot -	Tomato_Early_blight -	Tomato_Late_blight -	Tomato_Leaf_Mold -	Tomato_Septoria_leaf_spot - Tomato_Septoria_leaf_spot -	ក្នុ ២ Tomato_Spider_mites_Two_spotted_spider_mite - <u>ច</u>	Tomato_Target_Spot -	Tomato_Tomato_YellowLeafCurl_Virus -	Tomato_Tomato_mosaic_virus -	Tomato_healthy -	- 0	

501/501 [========== ] - 14s 27ms/step



## ☐ Classification Report:

support	precision	recall	f1-score
Tomato_Bacterial_	_spot 0.86	0.74	0.80
2127 Tomato_Early_bl	.ight 0.38	0.23	0.29
Tomato_Late_bl	ight 0.69	0.50	0.58
Tomato_Leaf_	_Mold 0.41	0.57	0.47
Tomato_Septoria_leaf_	_spot 0.51	0.64	0.57
Tomato_Spider_mites_Two_spotted_spider_ 1676	_mite 0.47	0.28	0.35
TomatoTarget_	_Spot 0.43	0.62	0.51
TomatoTomato_YellowLeafCurl_\ 3208	/irus 0.88	0.89	0.88
TomatoTomato_mosaic_v 373	virus 0.54	0.35	0.42
Tomato_hea	olthy 0.61	0.83	0.70
	ıracy		0.63
16011 macro	avg 0.58	0.56	0.56
16011 weighted	l avg 0.64	0.63	0.62
16011			

In [ ]: