

```
1 # Plot ROC curves
2 plt.figure()
3 plt.plot(fpr, tpr, color='blue', lw=2, label=f'Logistic Regression ROC curve (AUC
= {roc_auc:.2f})')
4 plt.plot(fpr_untuned, tpr_untuned, color='green', lw=2, label=f'Untuned Decision
Tree ROC curve (AUC = {roc_auc_dt_untuned:.2f})')
5 plt.plot(fpr_dt_tuned, tpr_dt_tuned, color='red', lw=2, label=f'Tuned Decision
Tree ROC curve (AUC = {roc_auc_dt_tuned:.2f})')
6 plt.plot(fpr_rf, tpr_rf, color='orange', lw=2, label=f'untuned Random Forest ROC
curve (AUC = {roc_auc_score_rf:.2f})')
7 plt.plot([0, 1], [0, 1], color='gray', linestyle='--') # Random classifier
diagonal
8
9 # Plot settings
10 plt.xlim([0.0, 1.0])
11 plt.ylim([0.0, 1.05])
12 plt.xlabel('False Positive Rate')
13 plt.ylabel('True Positive Rate')
14 plt.title('Receiver Operating Characteristic (ROC) Curve')
15 plt.legend(loc='lower right')
16 plt.show()
17
```