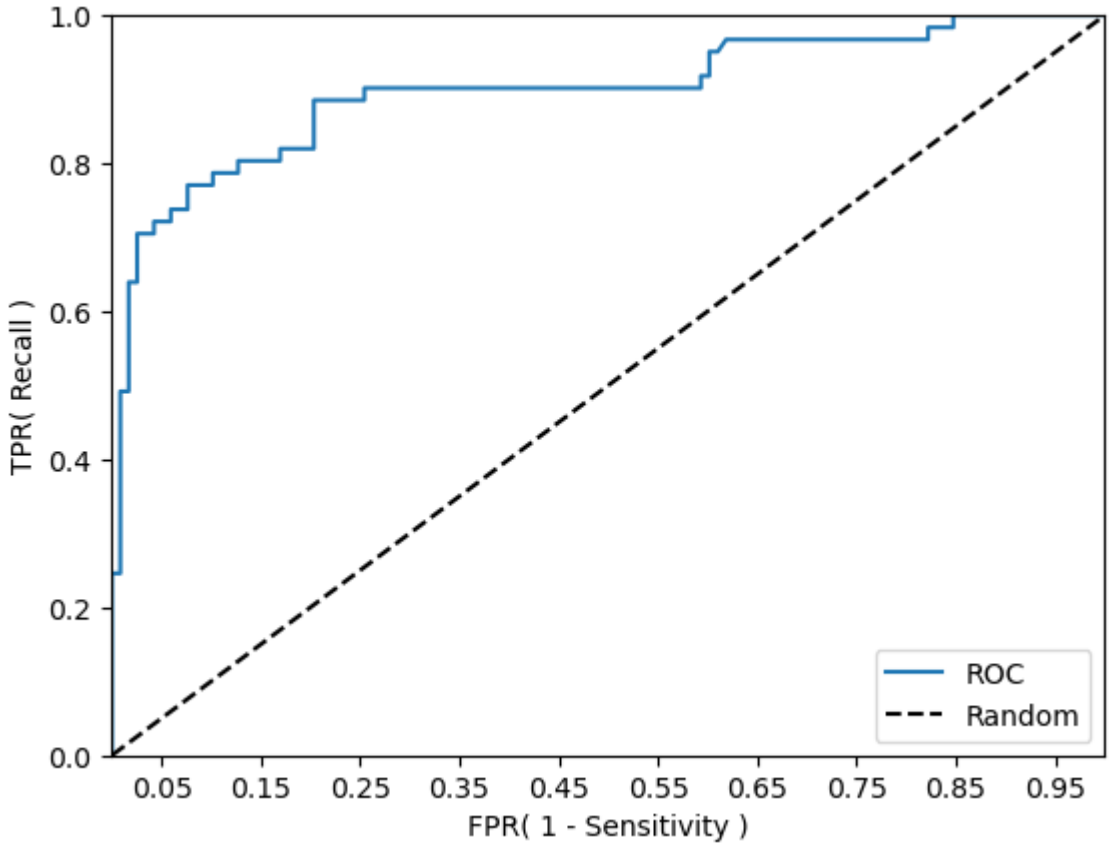
ROC-AUC 실습 - 타이타닉 (앞 예제 이어서)

(1) ROC 곡선 시각화



(2) 사용법

```
# roc_auc 사용
from sklearn.metrics import roc_auc_score
pred_proba = lr_clf.predict_proba(X_test)[:, 1]
roc_score = [redacted](y_test, [redacted])
print('ROC AUC 값: {0:.4f}'.format(roc_score))
```

```
ROC AUC 값: 0.8987
```

(3) 평가 함수 get_clf_eval 완성 (앞으로 사용!)

```
def get_clf_eval(y_test, pred=None, pred_proba=None):
    confusion = confusion_matrix( y_test, pred)
    accuracy = accuracy_score(y_test , pred)
    precision = precision_score(y_test , pred)
    recall = recall_score(y_test , pred)
    f1 = f1_score(y_test,pred)
    # ROC-AUC 추가
    roc_auc = roc_auc_score(y_test, pred_proba)
    print('오차 행렬')
    print(confusion)
    # ROC-AUC print 추가
    print('정확도: {0:.4f}, 정밀도: {1:.4f}, 재현율: {2:.4f},₩
          F1: {3:.4f}, AUC:{4:.4f}'.format(accuracy, precision,
                                           recall, f1, roc_auc))
```