

Commands + Code + Text Run all

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 - ICT_Project_IntelligentGOSe...
 - Misc
 - Resume
 - exit_exam
 - Reviews.csv
 - Reviews.csv.zip
 - Prototype.pdf
 - Python Quiz Web App
 - Python Quiz Web App for C...
 - Python Quiz Web App for C...
 - Rohit S_Resume (1).pdf

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Variables Terminal

Comparative Analysis and Recommendation

[40]
✓ 0s

```
from sklearn.metrics import accuracy_score, f1_score, roc_auc_score

# If y_test and y_pred (TF-IDF model) are strings, convert to binary
y_test_bin = (y_test == 'Positive').astype(int)
y_pred_tfidf_bin = (y_pred == 'Positive').astype(int)
y_pred_tfidf_proba = lr.predict_proba(X_test_tfidf)[: , 1] # Probability for ROC-AUC

acc_tfidf = accuracy_score(y_test_bin, y_pred_tfidf_bin)
f1_tfidf = f1_score(y_test_bin, y_pred_tfidf_bin)
roc_auc_tfidf = roc_auc_score(y_test_bin, y_pred_tfidf_proba)
```

/usr/local/lib/python3.12/dist-packages/sklearn/metrics/_ranking.py:379: UndefinedMetricWarning: Only one class is present in y_true. ROC AUC score is not defined in warnings.warn()

[41]
✓ 0s

```
y_test_w2v_bin = (y_test_w2v == 'Positive').astype(int)
y_pred_rf_bin = (y_pred_rf == 'Positive').astype(int)
y_pred_rf_proba = rf.predict_proba(X_test_w2v)[: , 1]

acc_rf = accuracy_score(y_test_w2v_bin, y_pred_rf_bin)
f1_rf = f1_score(y_test_w2v_bin, y_pred_rf_bin)
roc_auc_rf = roc_auc_score(y_test_w2v_bin, y_pred_rf_proba)
```

[42]
✓ 4m

```
y_pred_lstm = (model.predict(X_test) > 0.5).astype(int).reshape(-1)
y_test_lstm = y_test

acc_lstm = accuracy_score(y_test_lstm, y_pred_lstm)
f1_lstm = f1_score(y_test_lstm, y_pred_lstm)
roc_auc_lstm = roc_auc_score(y_test_lstm, model.predict(X_test).reshape(-1))
```

3287/3287 107s 32ms/step

3:40 PM Python 3

BSE midcap
+1.36%



ENG IN 15:46 15-10-2025

