

Likelihood Ratio Attack Report

Introduction

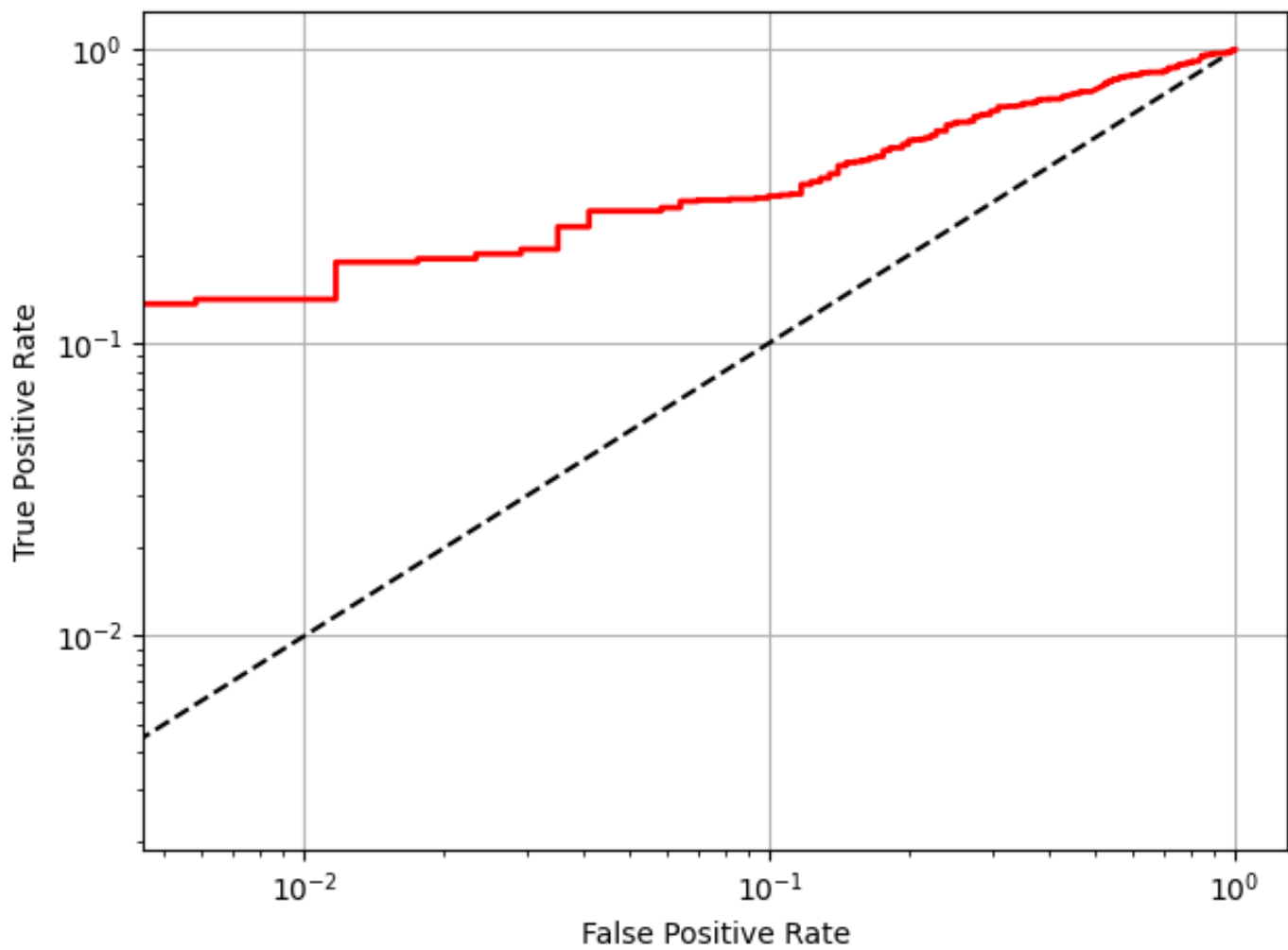
Metadata

```
n_shadow_models: 100
  p_thresh: 0.05
  output_dir: outputs_lira
  report_name: report_lira
training_data_filename: train_data.csv
test_data_filename: test_data.csv
training_preds_filename: train_preds.csv
test_preds_filename: test_preds.csv
  target_model: ['sklearn.ensemble', 'RandomForestClassifier']
  target_model_hyp: {'min_samples_split': 2, 'min_samples_leaf': 1}
attack_config_json_file_name: lira_config.json
n_shadow_rows_confidences_min: 10
  shadow_models_fail_fast: False
  target_path: None
  mode: offline
  fix_variance: False
  report_individual: False
    PDIF_sig: Significant at p=0.05
    AUC_sig: Significant at p=0.05
null_auc_3sd_range: 0.4207446718814698 -> 0.5792553281185302
```

Metrics

```
TPR: 0.7186
FPR: 0.4912
FAR: 0.2270
TNR: 0.5088
PPV: 0.7730
NPV: 0.4372
FNR: 0.2814
ACC: 0.6555
Flscore: 0.7448
Advantage: 0.2274
AUC: 0.6957
P_HIGHER_AUC: 0.0000
  FMAX01: 0.9825
  FMIN01: 0.5088
  FDIF01: 0.4737
  PDIF01: 0.0000
  FMAX02: 0.9386
  FMIN02: 0.5614
  FDIF02: 0.3772
  PDIF02: 22.0591
  FMAX001: 1.0000
  FMIN001: 0.5000
  FDIF001: 0.5000
  PDIF001: 3.5249
pred_prob_var: 0.0849
n_normal: 0.7083
```

ROC Curve



Likelihood Ratio Attack Report

Introduction

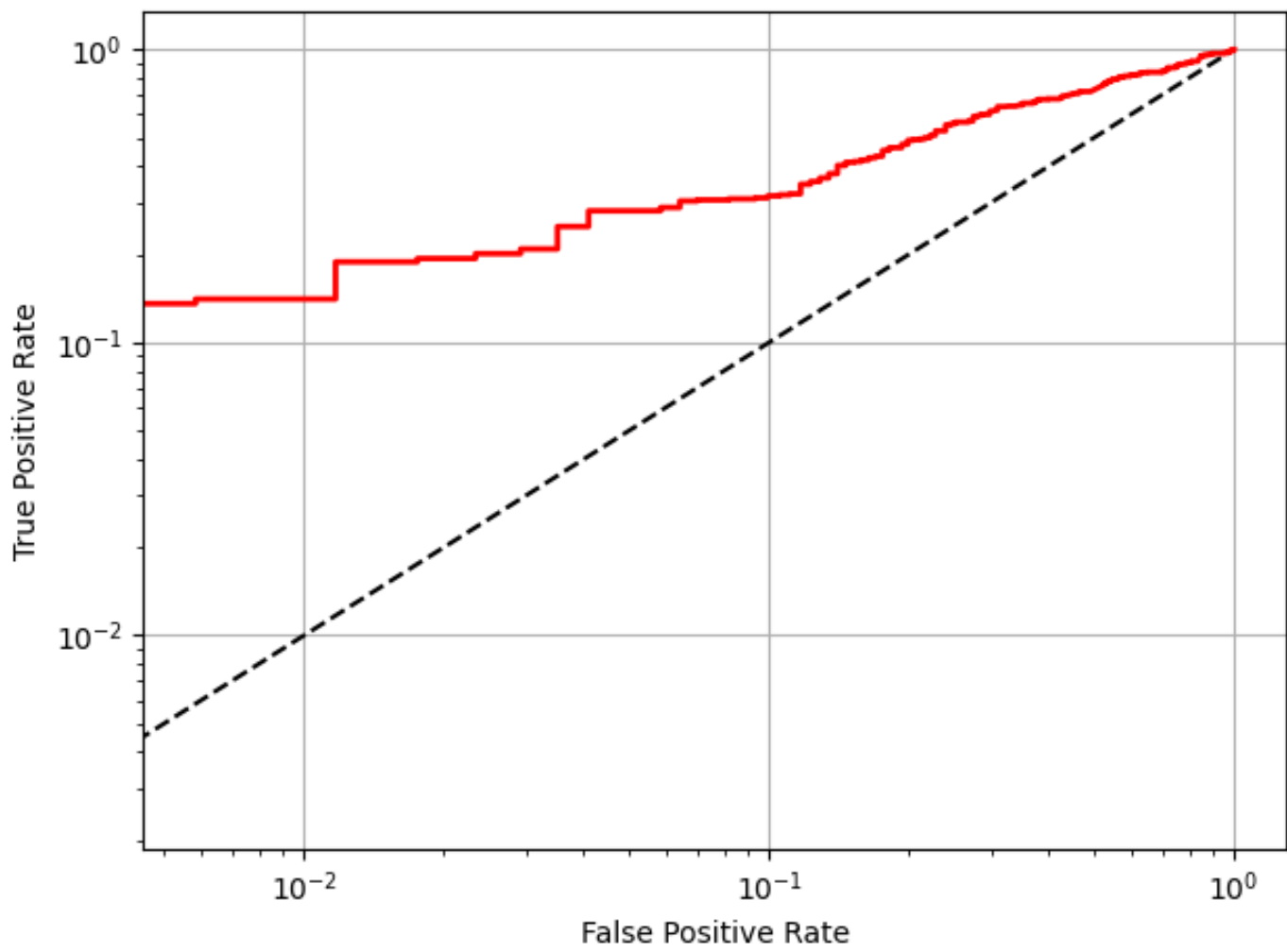
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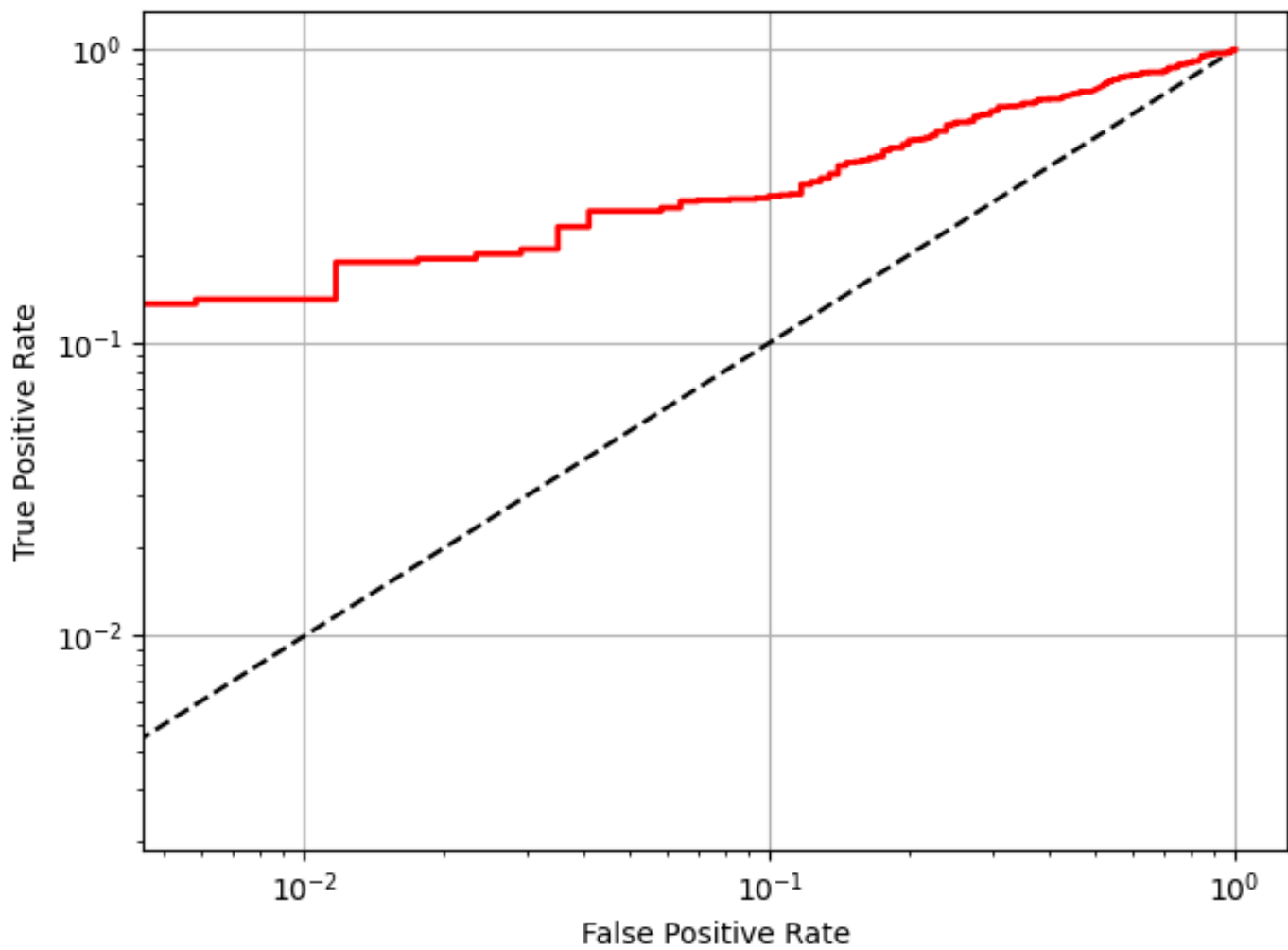
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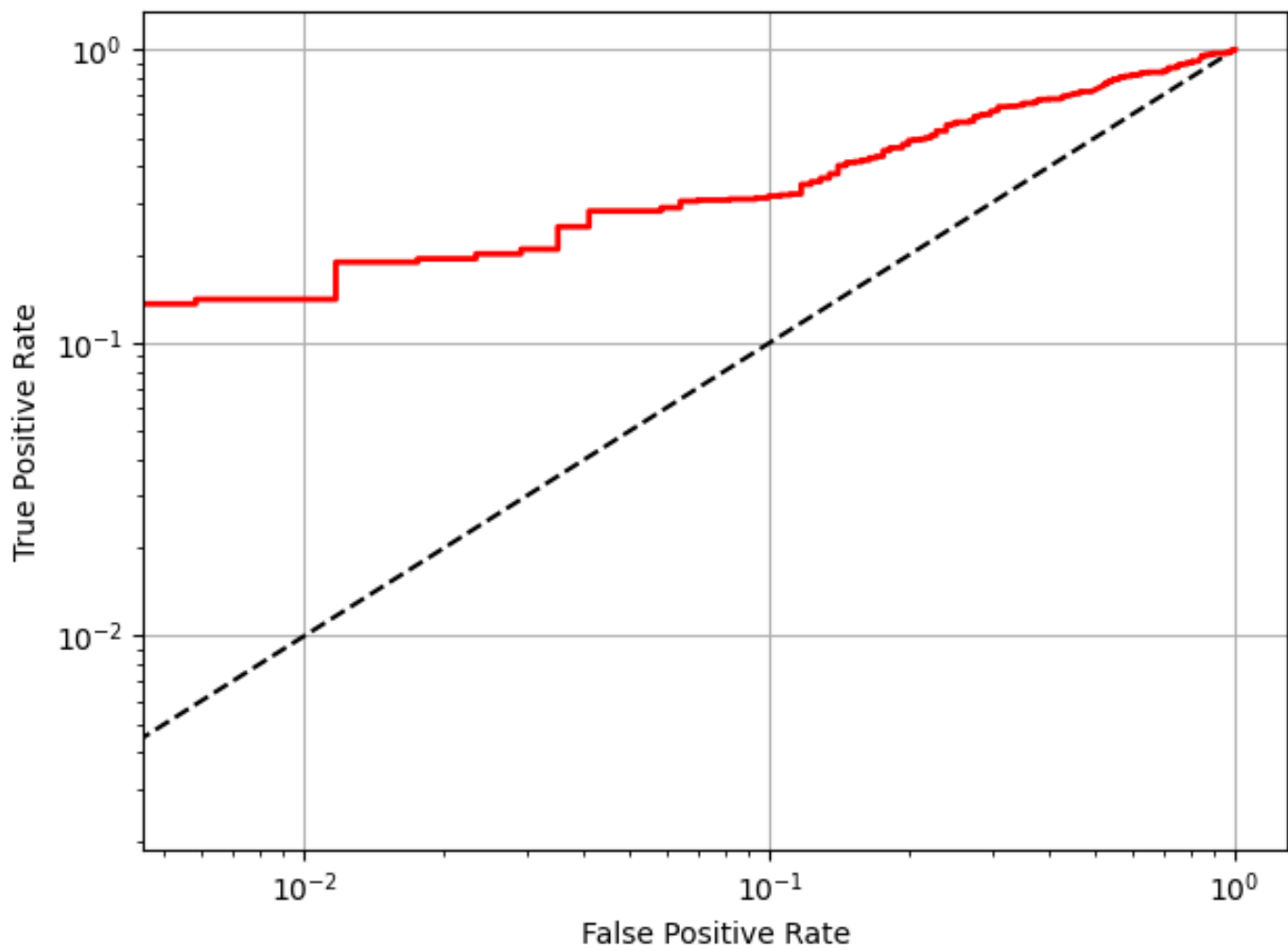
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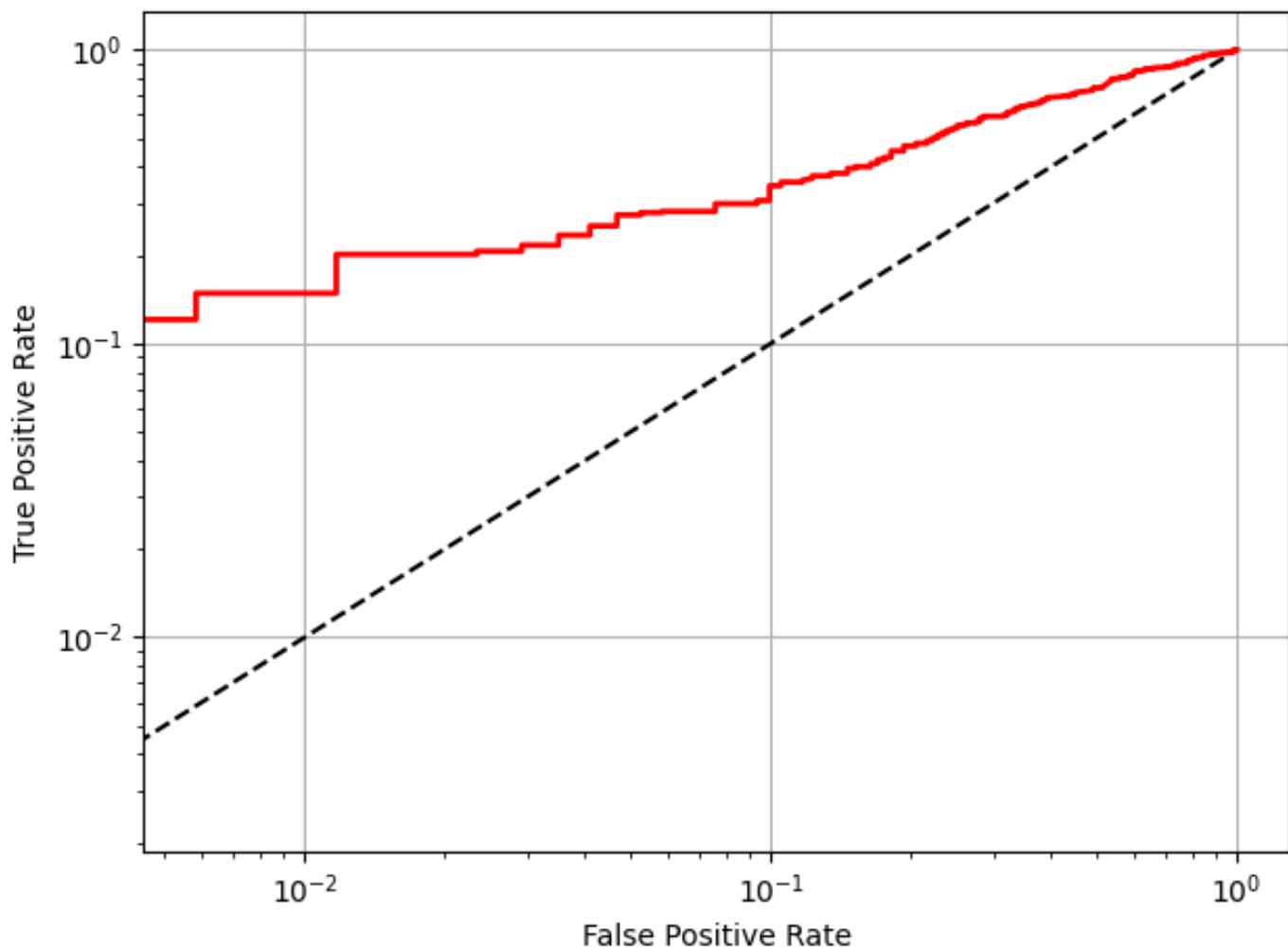
Metadata

```
n_shadow_models: 150
  p_thresh: 0.05
  output_dir: outputs_lira
  report_name: report_lira
training_data_filename: train_data.csv
test_data_filename: test_data.csv
training_preds_filename: train_preds.csv
test_preds_filename: test_preds.csv
  target_model: ['sklearn.ensemble', 'RandomForestClassifier']
  target_model_hyp: {'min_samples_split': 2, 'min_samples_leaf': 1}
attack_config_json_file_name: config_lira_cmd1.json
n_shadow_rows_confidences_min: 10
  shadow_models_fail_fast: False
    target_path: target_model_for_lira
    mode: offline
    fix_variance: False
  report_individual: False
    PDIF_sig: Significant at p=0.05
    AUC_sig: Significant at p=0.05
null_auc_3sd_range: 0.4207446718814698 -> 0.5792553281185302
```

Metrics

```
TPR: 0.7462
FPR: 0.5146
FAR: 0.2286
TNR: 0.4854
PPV: 0.7714
NPV: 0.4511
FNR: 0.2538
ACC: 0.6678
Flscore: 0.7586
Advantage: 0.2316
AUC: 0.6993
P_HIGHER_AUC: 0.0000
  FMAX01: 0.9825
  FMIN01: 0.4561
  FDIF01: 0.5263
  PDIF01: 0.0000
  FMAX02: 0.9298
  FMIN02: 0.4825
  FDIF02: 0.4474
  PDIF02: 30.0686
  FMAX001: 1.0000
  FMIN001: 0.6667
  FDIF001: 0.3333
  PDIF001: 2.2637
pred_prob_var: 0.0793
  n_normal: 0.7575
```

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training_data_filename: train_data.csv
test_data_filename: test_data.csv
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test_preds_filename: test_preds.csv
  target_model: ['sklearn.ensemble', 'RandomForestClassifier']
  target_model_hyp: {'min_samples_split': 2, 'min_samples_leaf': 1}
attack_config_json_file_name: config_lira_cmd2.json
n_shadow_rows_confidences_min: 10
  shadow_models_fail_fast: True
    target_path: target_model_for_lira
    mode: offline
  fix_variance: False
report_individual: False
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FNR: 0.2538
ACC: 0.6678
F1score: 0.7586
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  FMAX01: 0.9825
  FMIN01: 0.4561
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