

Likelihood Ratio Attack Report

Introduction

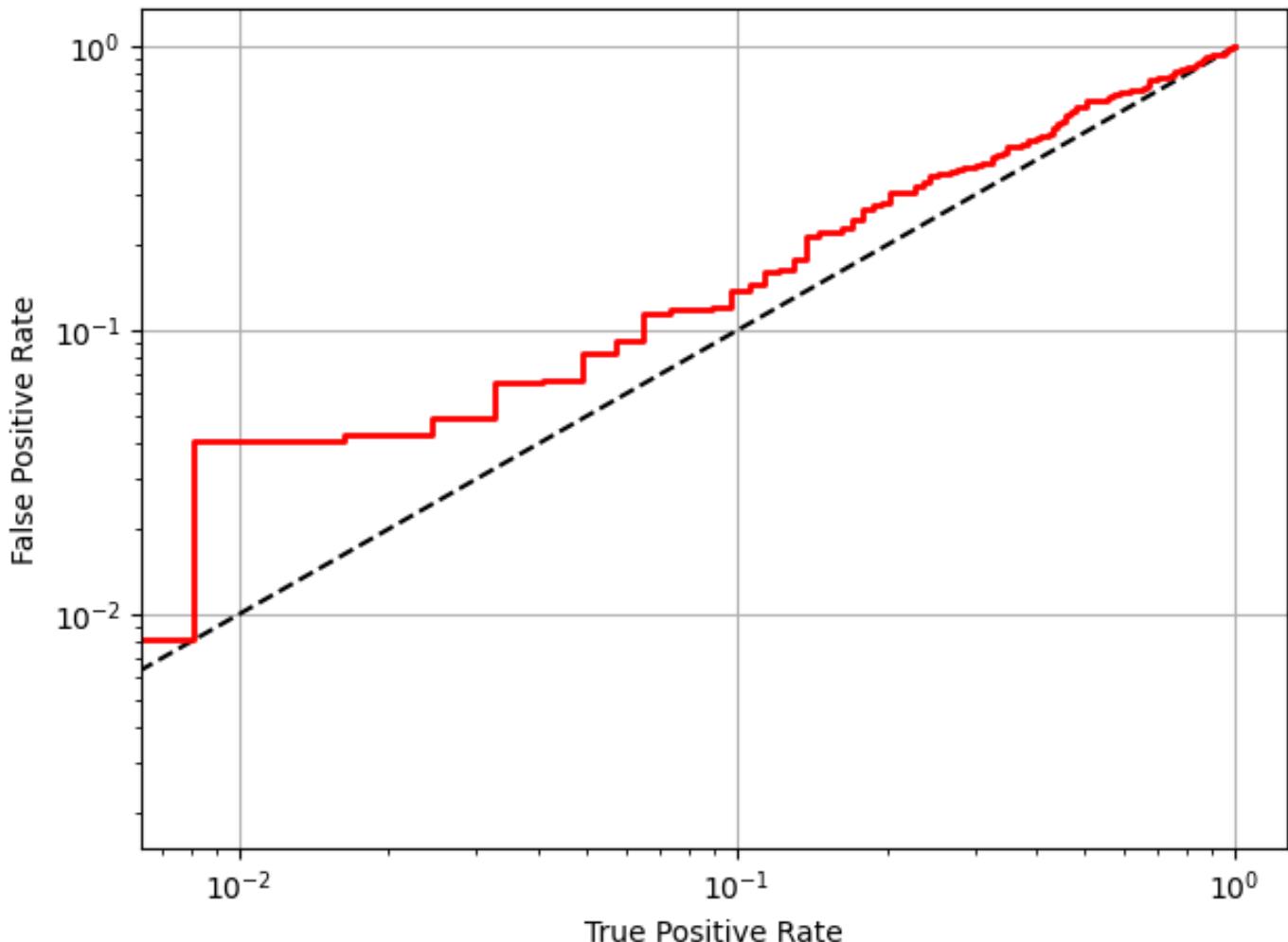
Metadata

```
n_shadow_models: 150
    p_thresh: 0.05
    output_dir: outputs_lira
    report_name: lira_example2_report
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: None
n_shadow_rows_confidences_min: 10
    shadow_models_fail_fast: True
        target_path: None
            PDIF_sig: Significant at p=0.05
            AUC_sig: Significant at p=0.05
    null_auc_3sd_range: 0.41260735418954564 -> 0.5873926458104544
```

Metrics

```
TPR: 0.5764
FPR: 0.4553
FAR: 0.1652
TNR: 0.5447
PPV: 0.8348
NPV: 0.2436
FNR: 0.4236
ACC: 0.5700
F1score: 0.6819
Advantage: 0.1211
AUC: 0.5633
P_HIGHER_AUC: 0.0149
    FMAX01: 0.8710
    FMIN01: 0.7419
    FDIF01: 0.1290
    PDIF01: 0.0363
    FMAX02: 0.8618
    FMIN02: 0.7561
    FDIF02: 0.1057
    PDIF02: 3.9536
    FMAX001: 0.8571
    FMIN001: 0.8571
    FDIF001: 0.0000
    PDIF001: 0.6931
pred_prob_var: 0.0806
```

ROC Curve



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        target_model: ['sklearn.ensemble', 'RandomForestClassifier']
    target_model_hyp: {'min_samples_split': 2, 'min_samples_leaf': 1}
attack_config_json_file_name: None
n_shadow_rows_confidences_min: 10
    shadow_models_fail_fast: True
        target_path: None
            PDIF_sig: Not significant at p=0.05
            AUC_sig: Not significant at p=0.05
    null_auc_3sd_range: 0.41260735418954564 -> 0.5873926458104544
```

Metrics

```
TPR: 0.0570
FPR: 0.6667
FAR: 0.7455
TNR: 0.3333
PPV: 0.2545
NPV: 0.0813
FNR: 0.9430
ACC: 0.1124
F1score: 0.0932
Advantage: 0.6096
AUC: 0.0538
P_HIGHER_AUC: 1.0000
    FMAX01: 0.2258
    FMIN01: 1.0000
    FDIF01: -0.7742
    PDIF01: 1.0000
    FMAX02: 0.2683
    FMIN02: 1.0000
    FDIF02: -0.7317
    PDIF02: -0.0000
    FMAX001: 0.8571
    FMIN001: 1.0000
    FDIF001: -0.1429
    PDIF001: 0.2906
pred_prob_var: 0.0604
```

ROC Curve

