Analysis Report

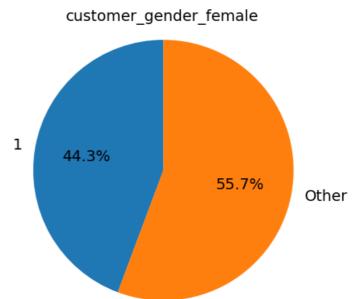
We report the following SageMaker analysis.

Pre-training Bias Metrics

We computed the bias metrics for the label fraud using label value(s)/threshold 0.

• customer_gender_female

The groups are represented in the dataset with the following proportions.



Value(s)/Threshold: 1

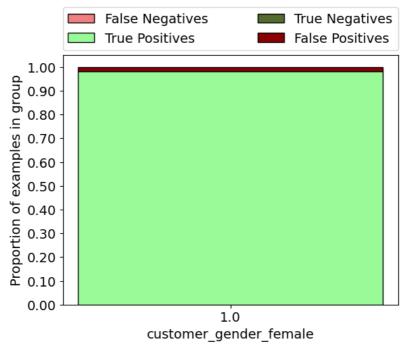
| name | description | value | error |
|------|--|-----------|---|
| CDDL | Conditional Demographic Disparity in Labels (CDDL) | None | Group variable is empty or not provided |
| CI | Class Imbalance (CI) | 0.114 | NaN |
| DPL | Difference in Positive Proportions in Labels (DPL) | -0.026594 | NaN |
| JS | Jensen-Shannon Divergence (JS) | 0.002894 | NaN |
| KL | Kullback-Liebler Divergence (KL) | 0.013582 | NaN |
| KS | Kolmogorov-Smirnov Distance (KS) | 0.026594 | NaN |
| LP | L-p Norm (LP) | 0.037609 | NaN |
| TVD | Total Variation Distance (TVD) | 0.026594 | NaN |

Post-training Bias Metrics

We computed the bias metrics for the label fraud using label value(s)/threshold 0.

• customer_gender_female

The labels and predictions of the group have the following proportions.



Positive labels = TP + FN --- Used in the following metrics: DPL, JS, KL, KS, LP, TVD

Negative labels = TN + FP

Positive predictions = TP + FP --- Used in the following metrics: DI

Negative predictions = TN + FN

Accuracy = TP + TN --- Used in the following metrics: AD Recall = TP / (TP + FN) --- Used in the following metrics: RD Precision = TP / (TP + FP) --- Used in the following metrics: DAR

Value(s)/Threshold: 1

| name | description | value | error |
|-------|---|-----------|---|
| AD | Accuracy Difference (AD) | -0.026594 | NaN |
| CDDPL | Conditional Demographic Disparity in Predicted Labels (CDDPL) | None | Group variable is empty or not provided |
| DAR | Difference in Acceptance Rates (DAR) | -0.026594 | NaN |
| DCA | Difference in Conditional Acceptance (DCA) | -0.026594 | NaN |
| DCR | Difference in Conditional Rejection (DCR) | 0 | NaN |
| DI | Disparate Impact (DI) | 1.0 | NaN |
| DPPL | Difference in Positive Proportions in Predicted Labels (DPPL) | 0.0 | NaN |
| DRR | Difference in Rejection Rates (DRR) | 0.0 | NaN |
| FT | Flip Test (FT) | 0.0 | NaN |
| RD | Recall Difference (RD) | 0.0 | NaN |
| TE | Treatment Equality (TE) | 0.0 | NaN |
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