Analysis Report

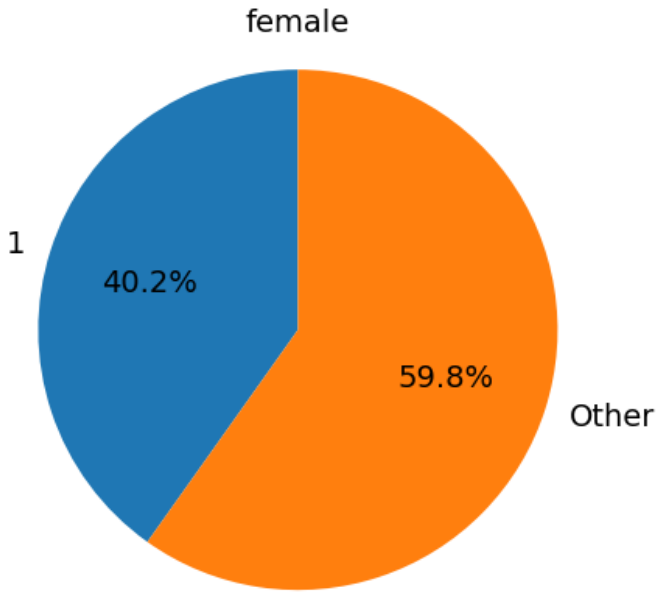
We report the following SageMaker analysis.

Pre-training Bias Metrics

We computed the bias metrics for the label `fraudulent_provider` using label value(s)/threshold `1`.

- **female**

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



Value(s)/Threshold: 1

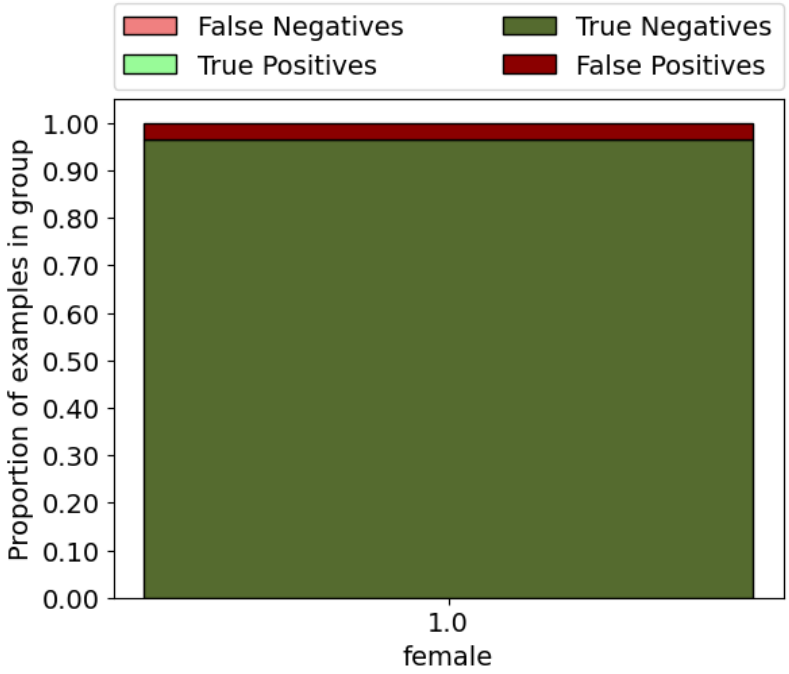
name	description	value	error
CDDL	Conditional Demographic Disparity in Labels (CDDL)	None	Group variable is empty or not provided
CI	Class Imbalance (CI)	0.196771	NaN
DPL	Difference in Positive Proportions in Labels (DPL)	0.001035	NaN
JS	Jensen-Shannon Divergence (JS)	0.000222	NaN
KL	Kullback-Liebler Divergence (KL)	0.001346	NaN
KS	Kolmogorov-Smirnov Distance (KS)	0.001035	NaN
LP	L-p Norm (LP)	0.001464	NaN
TVD	Total Variation Distance (TVD)	0.001035	NaN

Post-training Bias Metrics

We computed the bias metrics for the label `fraudulent_provider` using label value(s)/threshold `1`.

- **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)	-0.198303	NaN
CDDPL	Conditional Demographic Disparity in Predicted Labels (CDDPL)	None	Group variable is empty or not provided
DAR	Difference in Acceptance Rates (DAR)	0.000402	NaN
DCA	Difference in Conditional Acceptance (DCA)	0.000402	NaN
DCR	Difference in Conditional Rejection (DCR)	-0.268411	NaN
DI	Disparate Impact (DI)	0.149457	NaN
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	0.199338	NaN
DRR	Difference in Rejection Rates (DRR)	0.0	NaN
FT	Flip Test (FT)	-0.209384	NaN
RD	Recall Difference (RD)	0.0	NaN
TE	Treatment Equality (TE)	0.0	NaN