Analysis Report

We report the following SageMaker analysis.

Post-training Bias Metrics

We computed the bias metrics for the label `star_rating` using label value(s)/threshold `5,4` .

- **product_category**

Value(s)/Threshold: Digital_Software

name	description	value
AD	Accuracy Difference (AD)	0.0233333
CDDPL	Conditional Demographic Disparity in Predicted Labels (CDDPL)	0
DAR	Difference in Acceptance Rates (DAR)	0.231262
DCA	Difference in Conditional Acceptance (DCA)	0.143409
DCR	Difference in Conditional Rejection (DCR)	-0.0158425
DI	Disparate Impact (DI)	0.655556
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	0.206667
DRR	Difference in Rejection Rates (DRR)	0.0991758
RD	Recall Difference (RD)	0.161902
TE	Treatment Equality (TE)	-0.0892857

Value(s)/Threshold: Digital_Video_Games

name	description	value
AD	Accuracy Difference (AD)	0.183333
CDDPL	Conditional Demographic Disparity in Predicted Labels (CDDPL)	0
DAR	Difference in Acceptance Rates (DAR)	0.27327
DCA	Difference in Conditional Acceptance (DCA)	0.20566
DCR	Difference in Conditional Rejection (DCR)	0.236474
DI	Disparate Impact (DI)	1.00629
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	-0.00333333
DRR	Difference in Rejection Rates (DRR)	-0.0800405
RD	Recall Difference (RD)	0.155754
TE	Treatment Equality (TE)	-0.204545

Value(s)/Threshold: Gift Card

name	description	value
AD	Accuracy Difference (AD)	-0.206667
CDDPL	Conditional Demographic Disparity in Predicted Labels (CDDPL)	0
DAR	Difference in Acceptance Rates (DAR)	-0.426763
DCA	Difference in Conditional Acceptance (DCA)	-0.29777
DCR	Difference in Conditional Rejection (DCR)	-0.268447
DI	Disparate Impact (DI)	1.43885
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	-0.203333
DRR	Difference in Rejection Rates (DRR)	-0.0363975
RD	Recall Difference (RD)	-0.234923
TE	Treatment Equality (TE)	0.609649