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)	-0.0766667
CDDPL	Conditional Demographic Disparity in Predicted Labels (CDDPL)	0
DAR	Difference in Acceptance Rates (DAR)	0.0147849
DCA	Difference in Conditional Acceptance (DCA)	-0.525538
DCR	Difference in Conditional Rejection (DCR)	0.0367063
DI	Disparate Impact (DI)	0.387097
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	0.253333
DRR	Difference in Rejection Rates (DRR)	0.133387
RD	Recall Difference (RD)	0.195082
TE	Treatment Equality (TE)	2.425

Value(s)/Threshold: Digital_Video_Games

name	description	value
AD	Accuracy Difference (AD)	0.133333
CDDPL	Conditional Demographic Disparity in Predicted Labels (CDDPL)	0
DAR	Difference in Acceptance Rates (DAR)	0.280186
DCA	Difference in Conditional Acceptance (DCA)	-0.383901
DCR	Difference in Conditional Rejection (DCR)	-0.0283648
DI	Disparate Impact (DI)	0.596491
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	0.153333
DRR	Difference in Rejection Rates (DRR)	-0.0684093
RD	Recall Difference (RD)	0.330357
TE	Treatment Equality (TE)	-0.428571

Value(s)/Threshold: Gift Card

name	description	value
AD	Accuracy Difference (AD)	-0.0566667
CDDPL	Conditional Demographic Disparity in Predicted Labels (CDDPL)	0
DAR	Difference in Acceptance Rates (DAR)	-0.216475
DCA	Difference in Conditional Acceptance (DCA)	0.584674
DCR	Difference in Conditional Rejection (DCR)	-0.0139118
DI	Disparate Impact (DI)	3.10345
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	-0.406667
DRR	Difference in Rejection Rates (DRR)	-0.102066
RD	Recall Difference (RD)	-0.39814
TE	Treatment Equality (TE)	-1.05789