

Analysis Report

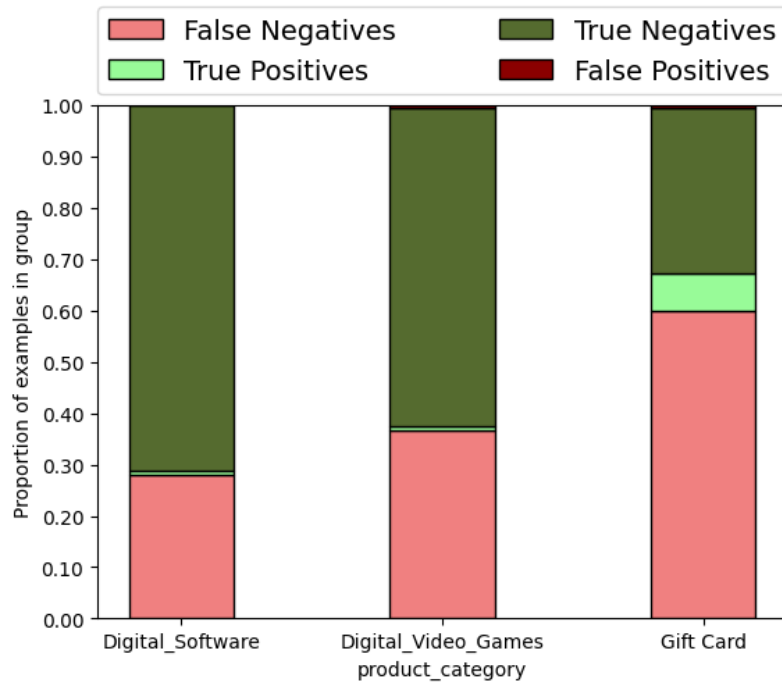
We report the following SageMaker analysis.

Post-training Bias Metrics

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

- **product_category**

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: Digital_Software

name	description	value
AD	Accuracy Difference (AD)	-0.21
DAR	Difference in Acceptance Rates (DAR)	-0.142857
DCA	Difference in Conditional Acceptance (DCA)	-31.785714
DCR	Difference in Conditional Rejection (DCR)	0.218121
DI	Disparate Impact (DI)	0.142857
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	0.04
DRR	Difference in Rejection Rates (DRR)	0.225114
RD	Recall Difference (RD)	0.053177
TE	Treatment Equality (TE)	Infinity

Value(s)/Threshold: Digital_Video_Games

name	description	value
AD	Accuracy Difference (AD)	-0.07
DAR	Difference in Acceptance Rates (DAR)	0.423077
DCA	Difference in Conditional Acceptance (DCA)	-16.923077
DCR	Difference in Conditional Rejection (DCR)	0.091581
DI	Disparate Impact (DI)	0.307692
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	0.03
DRR	Difference in Rejection Rates (DRR)	0.088309
RD	Recall Difference (RD)	0.065476
TE	Treatment Equality (TE)	-77.0

Value(s)/Threshold: Gift Card

name	description	value
AD	Accuracy Difference (AD)	0.28
DAR	Difference in Acceptance Rates (DAR)	-0.25
DCA	Difference in Conditional Acceptance (DCA)	24.583333
DCR	Difference in Conditional Rejection (DCR)	-0.321695
DI	Disparate Impact (DI)	8.0
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	-0.07
DRR	Difference in Rejection Rates (DRR)	-0.325575
RD	Recall Difference (RD)	-0.088709
TE	Treatment Equality (TE)	-7.0