

# Analysis Report

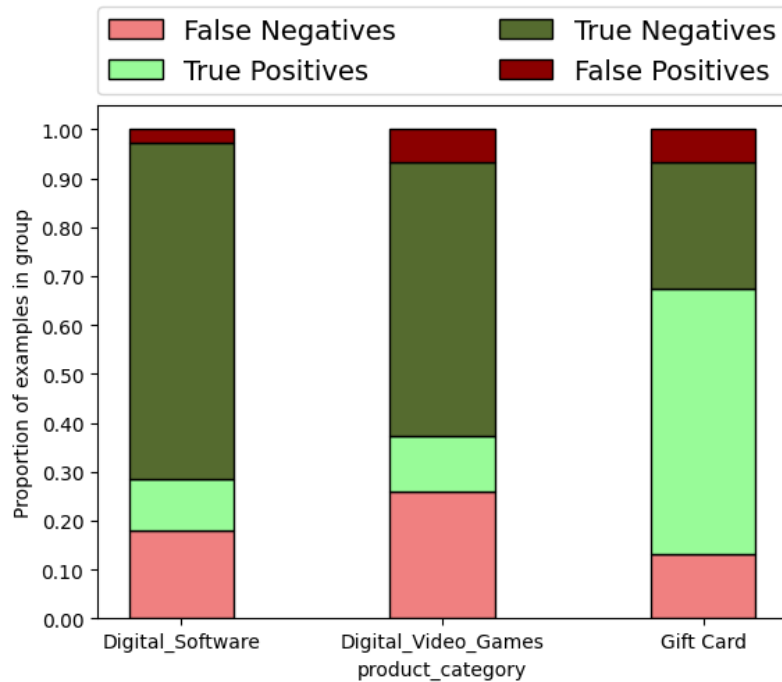
We report the following SageMaker analysis.

## 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)	-0.056667
DAR	Difference in Acceptance Rates (DAR)	0.030508
DCA	Difference in Conditional Acceptance (DCA)	-0.819492
DCR	Difference in Conditional Rejection (DCR)	0.037363
DI	Disparate Impact (DI)	0.338983
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	0.26
DRR	Difference in Rejection Rates (DRR)	0.116484
RD	Recall Difference (RD)	0.252111
TE	Treatment Equality (TE)	3.8

Value(s)/Threshold: Digital\_Video\_Games

name	description	value
AD	Accuracy Difference (AD)	0.123333
DAR	Difference in Acceptance Rates (DAR)	0.244244
DCA	Difference in Conditional Acceptance (DCA)	-0.776777
DCR	Difference in Conditional Rejection (DCR)	-0.061169
DI	Disparate Impact (DI)	0.486486
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	0.19
DRR	Difference in Rejection Rates (DRR)	-0.068396
RD	Recall Difference (RD)	0.37004
TE	Treatment Equality (TE)	0.542857

Value(s)/Threshold: Gift Card

name	description	value
AD	Accuracy Difference (AD)	-0.066667
DAR	Difference in Acceptance Rates (DAR)	-0.187982
DCA	Difference in Conditional Acceptance (DCA)	0.996493
DCR	Difference in Conditional Rejection (DCR)	0.036042
DI	Disparate Impact (DI)	3.87234
DPPL	Difference in Positive Proportions in Predicted Labels (DPPL)	-0.45
DRR	Difference in Rejection Rates (DRR)	-0.078113
RD	Recall Difference (RD)	-0.468647
TE	Treatment Equality (TE)	-2.714286