## **Analysis Report**

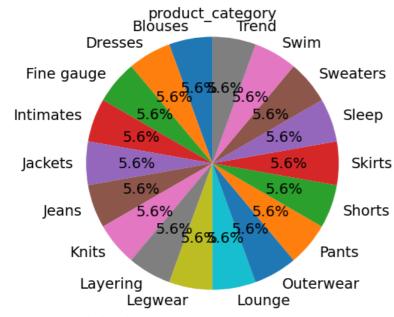
We report the following SageMaker analysis.

## **Pre-training Bias Metrics**

We computed the bias metrics for the label sentiment using label value(s)/threshold 1 for the below facets.

## • product\_category

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



Value(s)/Threshold: Blouses

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Dresses

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Fine gauge

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Intimates

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Jackets

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Jeans

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Knits

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Layering

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Legwear

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Lounge

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Outerwear

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Pants

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Shorts

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Skirts

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Sleep

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Sweaters

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Swim

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

Value(s)/Threshold: Trend

name	description	value
CI	Class Imbalance (CI)	0.888889
DPL	Difference in Positive Proportions in Labels (DPL)	0.0
JS	Jensen-Shannon Divergence (JS)	0.0
KL	Kullback-Liebler Divergence (KL)	0.0
KS	Kolmogorov-Smirnov Distance (KS)	0.0
LP	L-p Norm (LP)	0.0
TVD	Total Variation Distance (TVD)	0.0

## **Analysis Configuration Parameters**

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          "JS",
          "LP",
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