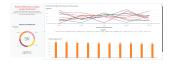
Fasion Company BI

Creation Date: Friday, 25 October 2024, 19:27:17 Author: evangeline.suciadi@student.umn.ac.id

Style Mode Analytics Homepage

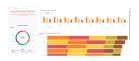
StyleMode.

since 2021



Product Performance & Sales Insights

This dashboard enables the business to analyze sales data and product performance over time, helping to identify which clothing types are the most popular and what purchasing trends look like



Brand & Style Analysis

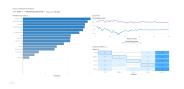
It provides guidance on which brands resonate with various demographics, helping to optimize collaborations with influencers and decide which brands to feature more prominently.

Customer Feedback & Satisfaction

With these insights, the company can improve customer satisfaction, tailor products to better meet customer needs, and enhance overall brand perception. Additionally, by analyzing trends in feedback over time, the company can predict future satisfaction trends and prepare proactive measures.

Seasonal & Demographic Insights Dashboard

helps the company plan product assortments, promotions, and marketing efforts aligned with customer preferences across different seasons and demographic groups.



Forest of Predicting Customer Reviews

The model is trained to predict sentiment categories (Positive, Negative, Neutral, etc.) based on customer reviews and various features of fashion products.

ML Models Comparison

the Gradient Boosting model appears to outperform the Random Forest model based on the fit statistic and variable importance, suggesting it may provide more accurate predictions for classifying customer reviews.



Gradient Boosting of Predicting Customer Reviews

The model is trained to predict sentiment categories

Choosen ML Models Demo

prediction results using a Gradient Boosting machine learning model to classify customer

Dashboard 1

Product Performance & Sales Insights Dashboard

tracks historical data and

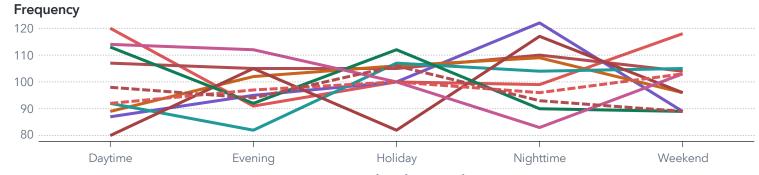
Frequency of Clothes Size

Frequency



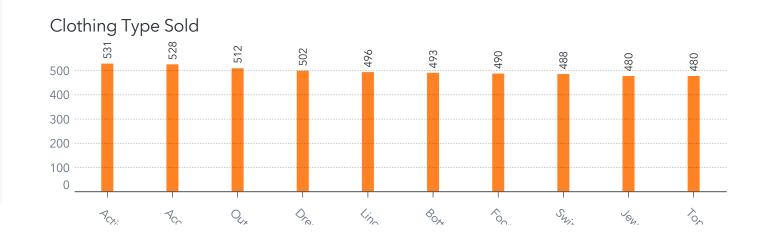


Time Period Highest Purchase by Clothing Type



Time Period Highest Purchase





Customer Feedback & Satisfaction Dashboard

Analyze customer reviews to understand product perception and consumer satisfaction levels



Customer Reviews Sentiment Distribution



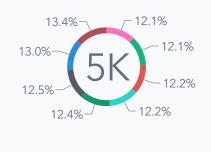
Frequency of Season grouped by feedback Frequency 160 140 120 Spring Spring/Summer Summer Fall Fall/Winter Winter Season feedback Mixed Negative Other Positive —

Dashboard 3

Brand & Style Analysis Dashboard

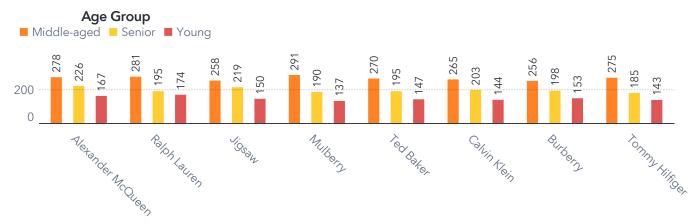
Evaluate brand performance and style preferences, providing insights into which brands and styles resonate the

Frequency of Brand Frequency

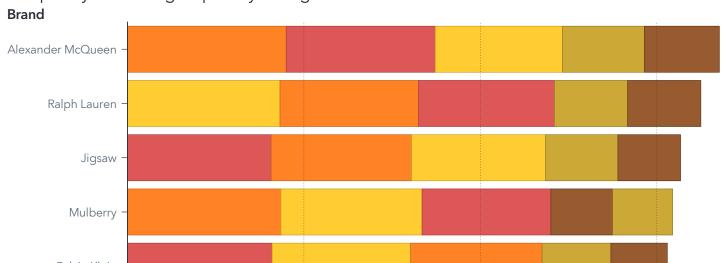




Clothing Brand per Age Sold



Frequency of Brand grouped by Rating



Dashboard 4



Demographic Percentage

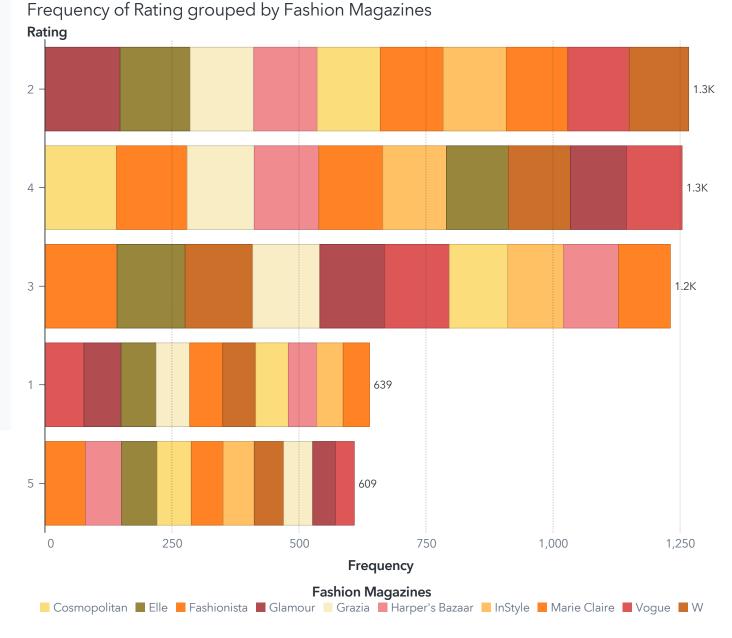
Ted Baker [\]Tommy Hilfiger

Season

Frequency Percent

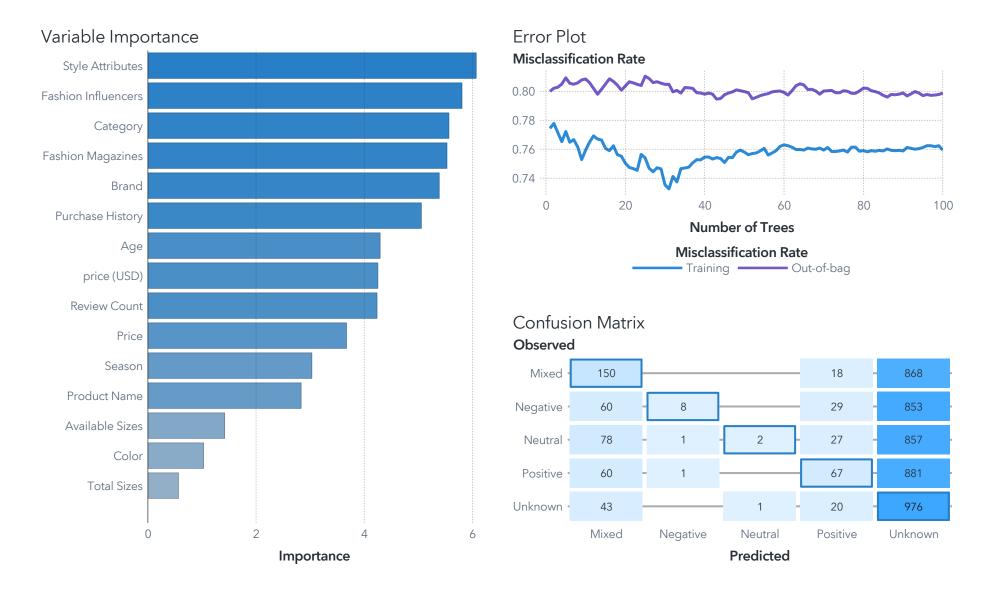
Age Group: Middle-aged

Frequency Percent Age Group: Senior



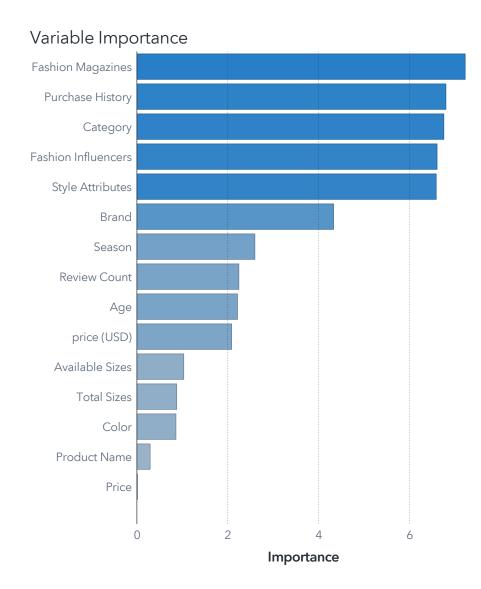
Forest of Predicting Sentiment Analysis

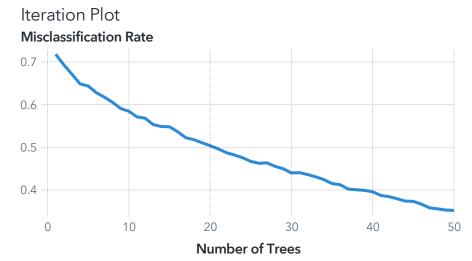
Event: Positive Fit: Misclassification Rate 0.7592 Observations: 5K of 5K



Gradient Boosting of Predicting Customer Reviews

Event: Positive Fit: Misclassification Rate 0.3520 Observations: 5K of 5K







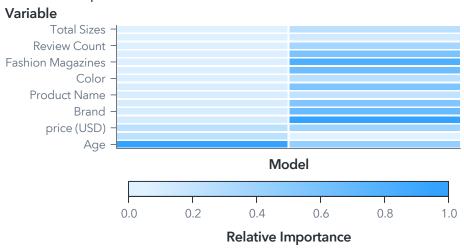
comparison

Model Comparison of Customer Reviews

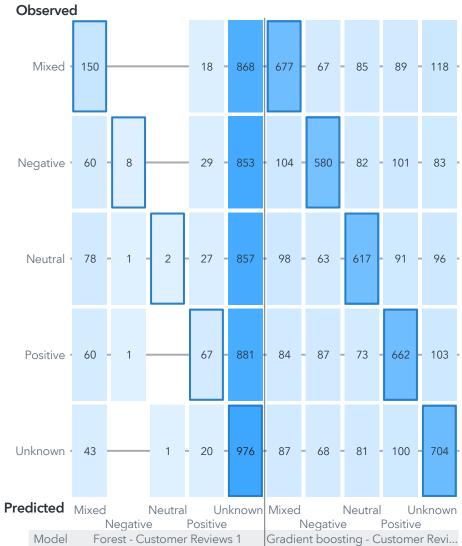
Event: Positive



Relative Importance Plot



Confusion Matrix



What values for the most important factors should be used to predict?

What is the prediction for Customer Reviews?

Style Attributes	
Bohemian	~
Fashion Magazines	
Elle	~
Fashion Influencers	
Kendall Jenner	~
Category	
Activewear	~
Brand	
Alexander McQueen	~
Season	
Spring/Summer	~

Positive

The predicted Customer Reviews, Positive, is the 3 most common Customer Reviews value in observed cases. Most observed cases (20.80%) are Unknown, while 20.18% are Positive. The prediction is based on an automatically selected Gradient Boosting model.