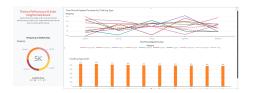
#### Fasion Company BI

Creation Date: Monday, 16 December 2024, 04:25:39 Author: evangeline.suciadi@student.umn.ac.id

#### homepage

#### Style Mode Analytics Homepage - Data Visualization





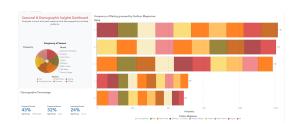
#### **Product Performance & Sales Insights**

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.

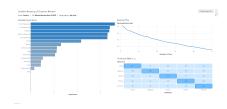
#### Seasonal & Demographic Insights Dashboard

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

#### homepage (1)

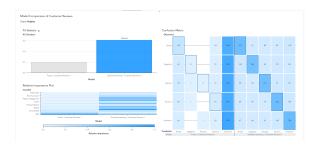
#### Style Mode Analytics Homepage - Data Modelling





#### **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.



#### **Gradient Boosting 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.

#### Choosen ML Models Demo

prediction results using a Gradient Boosting machine learning model to classify customer reviews. In this case, the predicted sentiment is "Positive."

#### Dashboard 1

# Product Performance & Sales Insights Dashboard

tracks historical data and

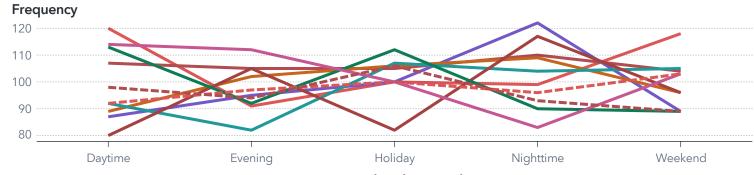
#### Frequency of Clothes Size

Frequency



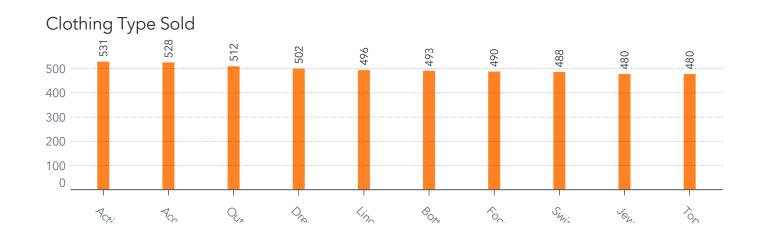


#### Time Period Highest Purchase by Clothing Type









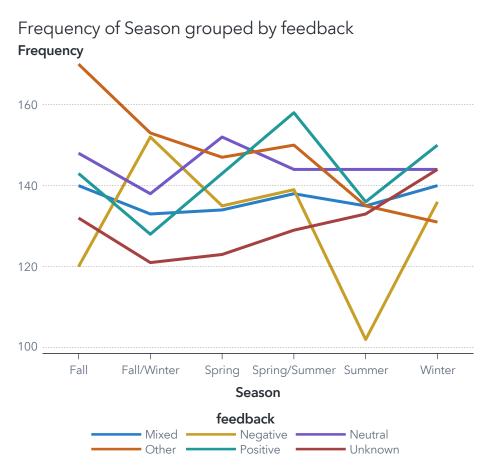
#### **Customer Feedback & Satisfaction Dashboard**

Analyze customer reviews to understand product perception and consumer satisfaction levels



#### Customer Reviews Sentiment Distribution



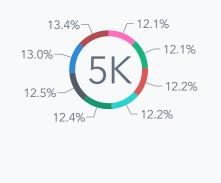


#### Dashboard 3

#### Brand & Style Analysis Dashboard

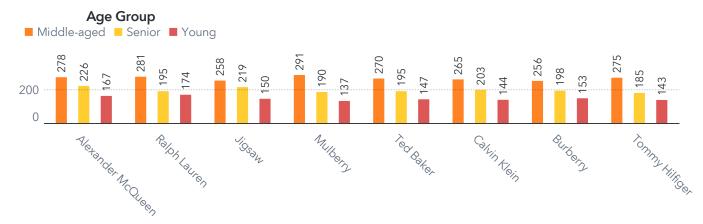
Evaluate brand performance and style preferences, providing insights into which brands and styles resonate the

## Frequency of Brand Frequency

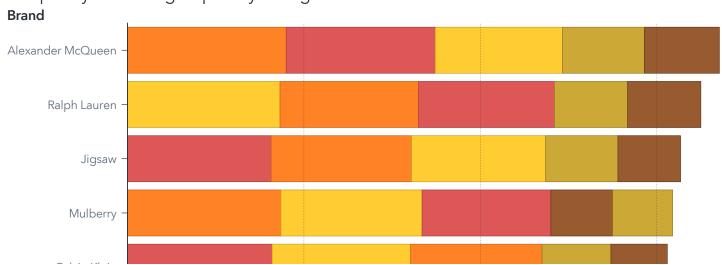




#### Clothing Brand per Age Sold



#### Frequency of Brand grouped by Rating



#### Dashboard 4



#### Demographic Percentage

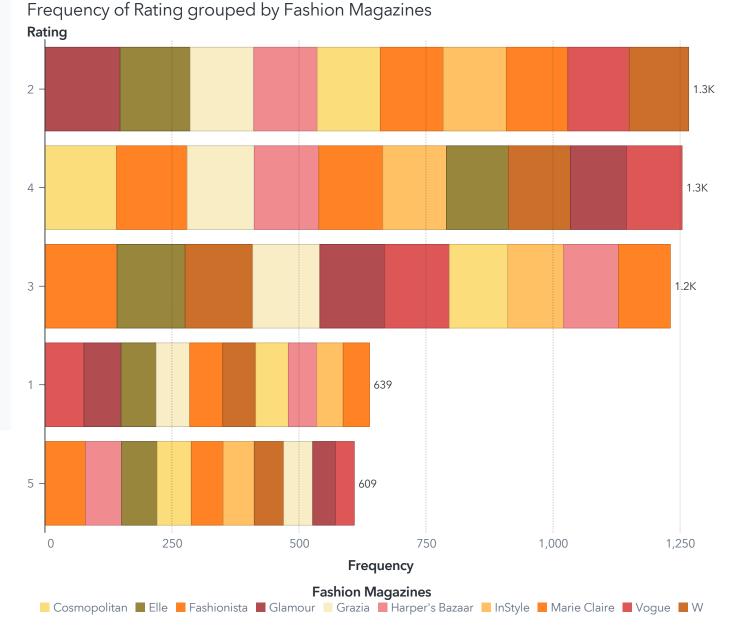
Ted Baker \Tommy Hilfiger

Season

Frequency Percent

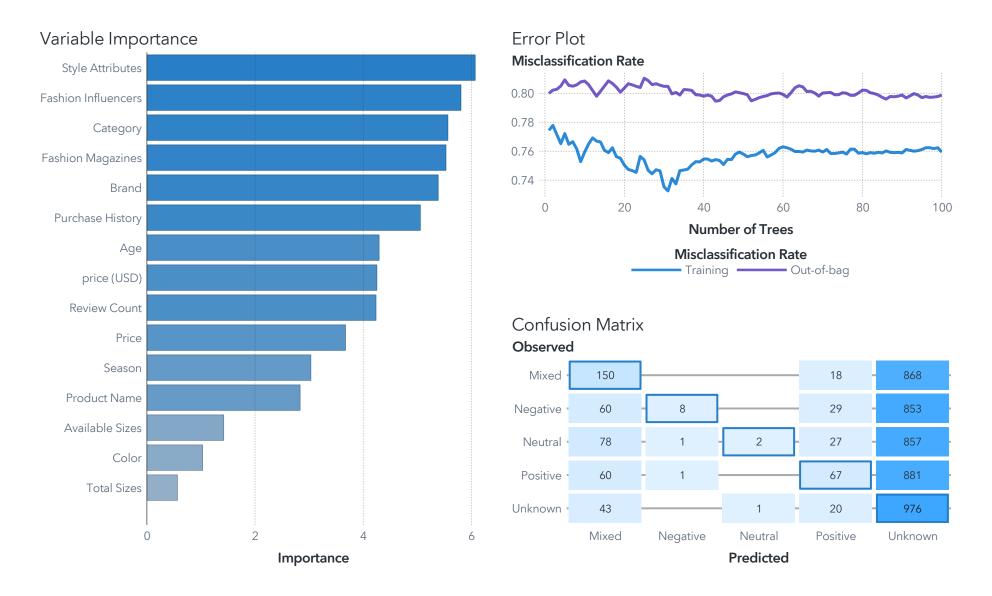
**Age Group:** Middle-aged

Frequency Percent Age Group: Senior



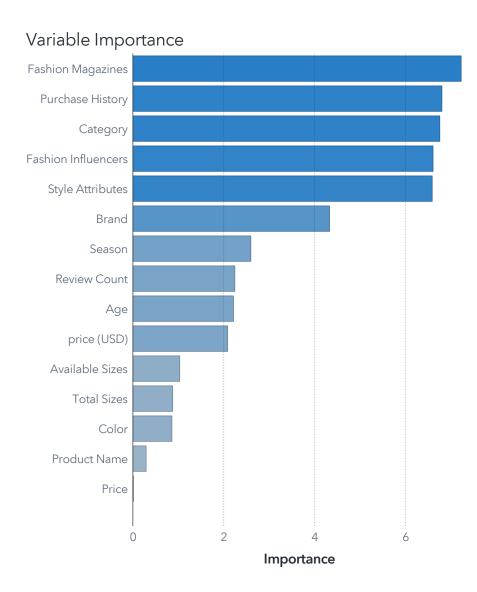
#### Forest of Predicting Sentiment Analysis

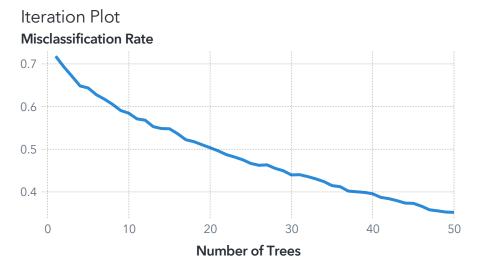
Event: Positive Fit: Misclassification Rate 0.7592 Observations: 5K of 5K



#### Gradient Boosting of Predicting Customer Reviews

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



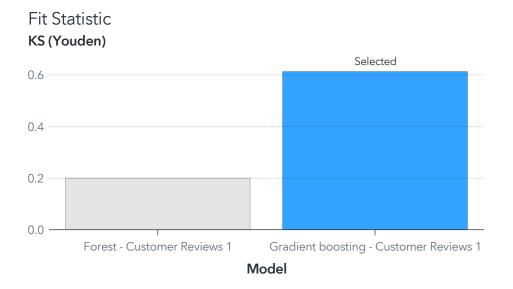




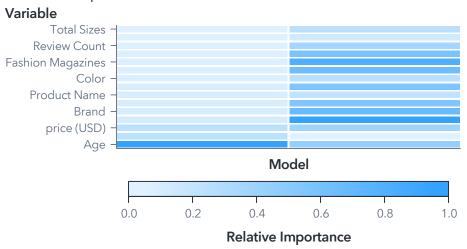
#### comparison

#### Model Comparison of Customer Reviews

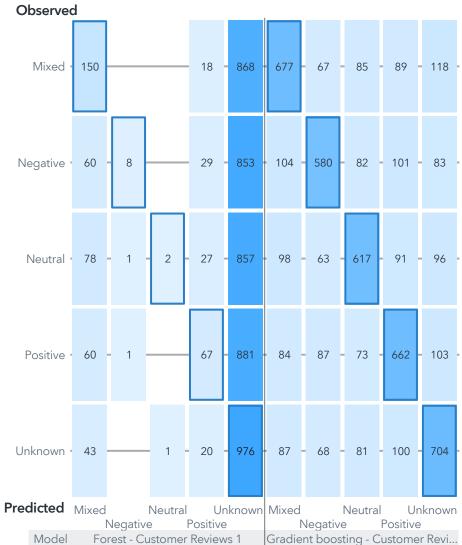
Event: Positive



#### 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.