

Model Explanation

In the following slides, we are going to explain the two main components of our web app: CLV & Product Recommendation



Increasing Profits Using CLV/RFM Analysis

CLV/RFM Analysis

To be able to effectively target customers, we analyzed their customer lifetime value (CLV), which we calculated using DCF (discounted cash flow). On top, we performed an RFM (Recency, Frequency, Monetary Value) Analysis of the customer base, calculating the probability of repeat purchases and customers coming back in the next month.



Product Recommendation

Association Rules

To give product recommendations, we analyzed what products were frequently bought together

Flexibility

The recommendation tab allows the business to select items it wants to put on sale

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NEW ARRIVALS > NECKLACES > EARRINGS > BRACELETS

FALL / WINTER



Display a menu

How Does It Work?



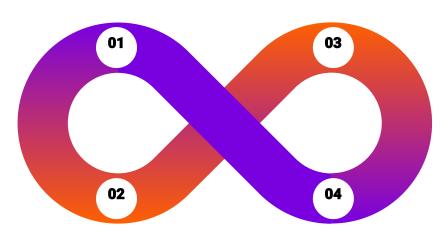
ORDER INFORMATION

It all begins with the order information from our data that tells us which products have been bought together and in which frequency



DATA PREPARATION

To process the data, we needed to clean & restructure it





ASSOCIATION RULES

Using association rule mining, we identified the most frequently bought together items



RECOMMENDATION

Based on the association rules, we are now able to give product recommendations that have a high probability of being attractive to customers

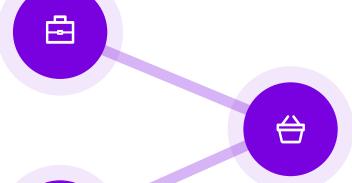
Product Recommendation Workflow

BUSINESS OWNER LIST

Owner creates a list of products they wish to promote or discount

PRODUCT RECOMMENDATION

Model runs in background and identifies items that were most frequently bought in association with items in shopping cart. If there should be a match with the business owner list created in step 1, the model will prioritize the item from the recommendation list



CUSTOMER SHOPPING CART

Customers add items to their shopping cart