Understanding the Customer

FARFETCH

Adam Dick // Flatiron School

Data Science

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github.com/acdick/farfetch_understanding_the_customer

Online Luxury Retail: The Farfetch Platform and Marketplace



The Mission of the Data Science Team

Who They Are

Understanding the Customer

What They Want

How to Get Their Attention

Who They Are: A Data Science Approach

	16,105 (9,667 Unique) Customer Reviews			Consumer Journey	
	Pieces Bought	Rating		Touch-Driven Recommender Engine	
	Product URL	Reviewed By		Live Checkpoint for Inventory Stockouts	
Data Product Inputs					
ı	Original Price Sales Discount	Designer		Non-Repeating Rolling Recommendations	
	Gender	Category		Synchronization with NoSQL Database	
	13,518 Unique Product Details				

A Touch-Driven Recommender Engine

The Most-Rated Individual Products 3x Recommendations

The "Best Nine"
Most-Rated Subcategories
9x Recommendations

Collaborative Filtering
Singular Value Decomposition
Nx Recommendations

Unpersonalized

Consumer Journey

Personalized

The "Best One"

Most-Rated Subcategory

3x Recommendations

Content-Based Similarity
Pearson Correlation
3x Recommendations

The Most-Rated Individual Products



Gucci Accessories 15 Product Ratings

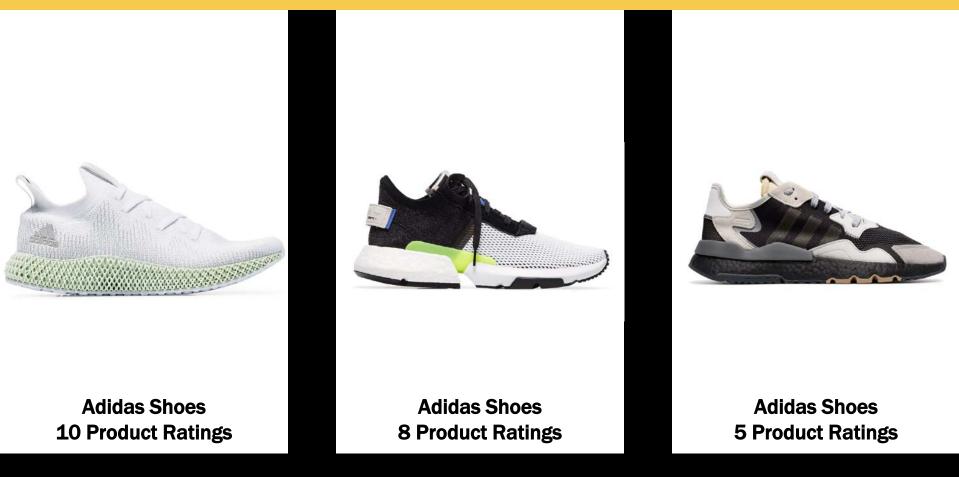


Buffalo Shoes 13 Product Ratings



Kenzo Clothing
10 Product Ratings

The "Best One" Most-Rated Subcategory



The "Best Nine" Most-Rated Subcategories

Adidas Bags

3 Subcategory Ratings



Dolce & Gabbana Bags

> 50 Subcategory Ratings



Gucci Bags

78 Subcategory Ratings



Adidas Clothing

83 Subcategory Ratings



Dolce & Gabbana Clothing

> 205 Subcategory Ratings



Gucci Clothing

52 Subcategory Ratings



Adidas Shoes

375 Subcategory Ratings



Dolce & Gabbana Shoes

> 131 Subcategory Ratings

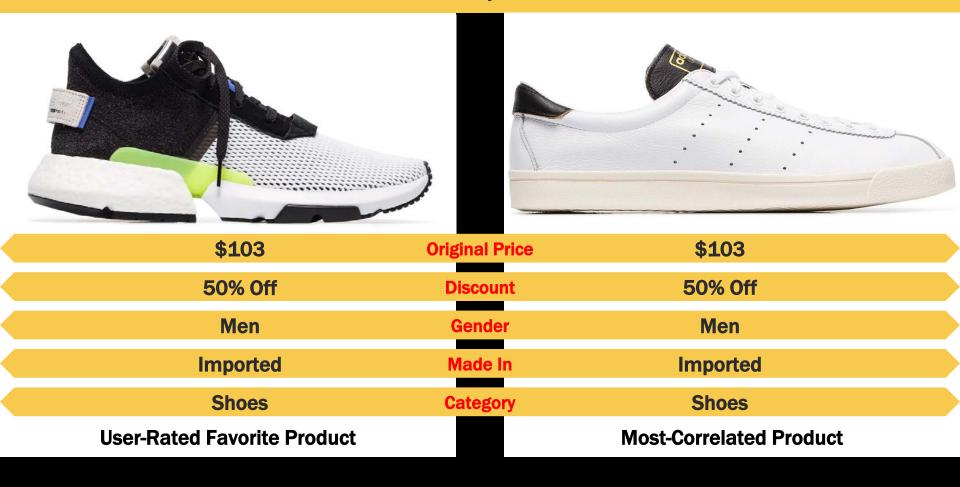


Gucci Shoes

153 Subcategory Ratings



Content-Based Similarity: Pearson Correlation



User-to-User Collaborative Filtering: Singular Value Decomposition

2,000 x 2,000 4M Cells

The Long Tail
User-Product Utility Matrix

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The Project Data Stack

Business Understanding

Brand Management Consumer Journeys

Data
Mining & Cleaning

Requests BeautifulSoup

Data Warehousing

JSON NoSQL / MongoDB

Data Exploration Feature Engineering

Python / Numpy Pandas

Predictive Modeling

Surprise / SVD GridSearchCV

Data Visualization

Matplotlib / Seaborn Selenium Webdriver