Team Aqua

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Why Amazon?

Inspiration: Interested in seeing what factors led to the popularity in Amazon products as well as comparing it to Walmart sales

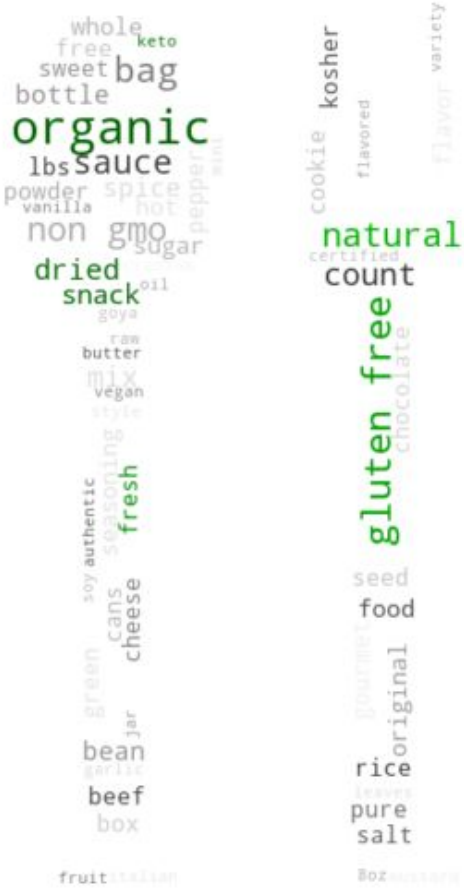
Interest for Dataset: Products with ratings, prices, and categories

Dataset

- 2 Million Records of Amazon Sales
  - 10K Records Cleaned and Collected from Kaggle
- 30K Records of Amazon Products + Walmart Products

	category	title	price	rating	No of reviews
0	Any Department/Home & Kitchen/ Irons & Steamers	\n Hilife Steamer for Clothes Steam...	$24.99	4.4 out of 5 stars	15,233
1	Any Department/Home & Kitchen/ Irons & Steamers	\n Professional Grade 1700W Steam I...	$39.97	4.5 out of 5 stars	9,726
2	Any Department/Home & Kitchen/ Irons & Steamers	\n Homz T Leg Ironing Board Holder,...	1.9964.78	4.4 out of 5 stars	2,796
3	Any Department/Home & Kitchen/ Irons & Steamers	\n OGHom Steamer for Clothes Steame...	16.9918.99	4.6 out of 5 stars	6,573
4	Any Department/Home & Kitchen/ Irons & Steamers	\n BEAUTURAL Steamer for Clothes wi...	32.9739.97	4.4 out of 5 stars	8,223

	category	title	price	rating	No of reviews
0	[Kitchen & Dining, Kitchen Utensils & Gadgets,...	leifheit comfortline gourmet garlic slicer | f...	15.99	4.4	403
1	[Health & Household, House Supplies, Household...	food grade mineral oil cutting boards countert...	19.80	4.9	321
2	[Automotive, RV Parts & Accessories, Lighting]	srrb direct 1139 1383 led replacement r12 ba15...	15.99	4.4	321
3	[Toys & Games, Hobbies, Trains & Accessories, ...	bachmann industries 50 sliding door box santa ...	53.99	4.5	9
4	[Sports & Outdoors, Outdoor Recreation, Cyclin...	unisex cycling cap breathable anti-sweat helme...	29.95	4.0	11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sweet
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powder
spice
vanilla
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non
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dried
snack
oil
goya
raw
butter
mix
vegan
style
seasoning
fresh
soy
authentic
cans
cheese
green
jar
bean
garlic
beef
box
fruit
italian
kosher
variety
cookie
flavored
flavor
natural
certified
count
gluten free
chocolate
seed
food
gourmet
original
rice
leaves
pure
salt
Boz
mustard

stretch
size
soft
little
t shirt
hat
big
slim
fashion
v neck
adidas
mini
running
cover
card holder
tank top
long sleeve
cotton
casual loose
plus size
one piece
jacket
hoodie
shoe
toddler
lightweight
quick dry
travel
casual
lace
pair
s xxl
vintage
waterproof
big tall
summer
coat
hair
pant
bag
long
skirt
adjustable
short sleeve
loose
bracelet
fleece
breathable
short
large
sexy
baby
knit
beach
ekouaer
underwear
pullover
top
sport
sleepwear
pocket
dress
classic
stainless steel
sneaker
uv protection

Creating & Analyzing Product Category Clusters

Link to interactive visualization

Comparing Clustered Amazon Product Categories

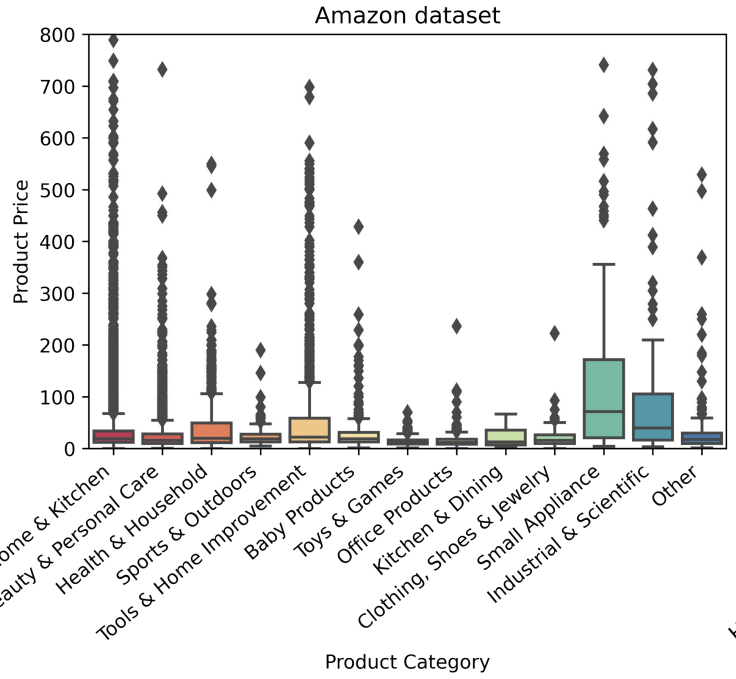
Parameters: Number of Reviews, Price, Rating

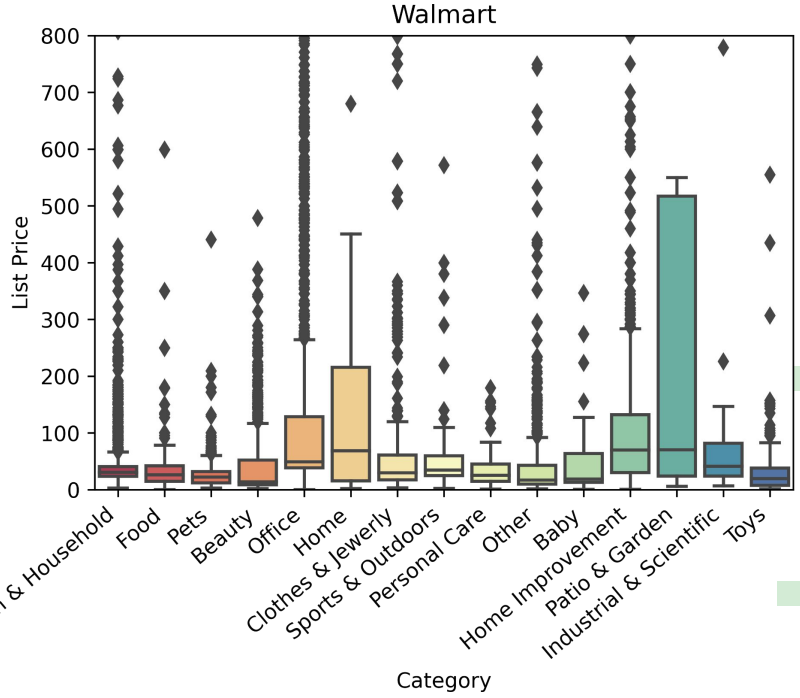
Size by:

avg_num_reviews

UCLA DataRes - Team Aqua

Sudhanshu Agrawal


Amazon dataset
Product Price
800
700
600
500
400
300
200
100
0
Home & Kitchen
Beauty & Personal Care
Health & Household
Sports & Outdoors
Tools & Home Improvement
Baby Products
Toys & Games
Office Products
Kitchen & Dining
Clothing, Shoes & Jewelry
Small Appliance
Industrial & Scientific
Other
Product Category


Walmart
List Price
800
700
600
500
400
300
200
100
0
Health & Household
Food
Pets
Beauty
Office
Home
Clothes & Jewerly
Sports & Outdoors
Personal Care
Other
Baby
Home Improvement
Patio & Garden
Industrial & Scientific
Toys
Category

Thank You!