

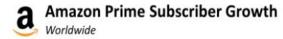
Why do We Care?

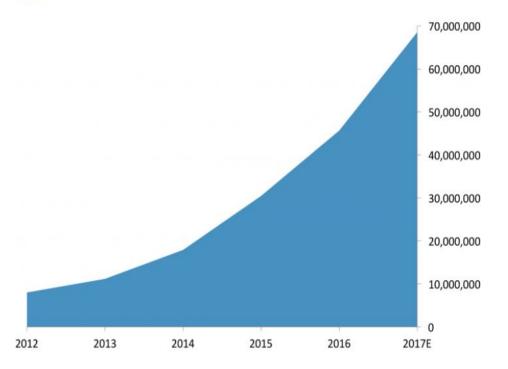


A smarter review platform!

- **→** Summarize the reviews
- → Easy to collect reviews from customers

Data: Amazon Customer Reviews on Yoga Pants



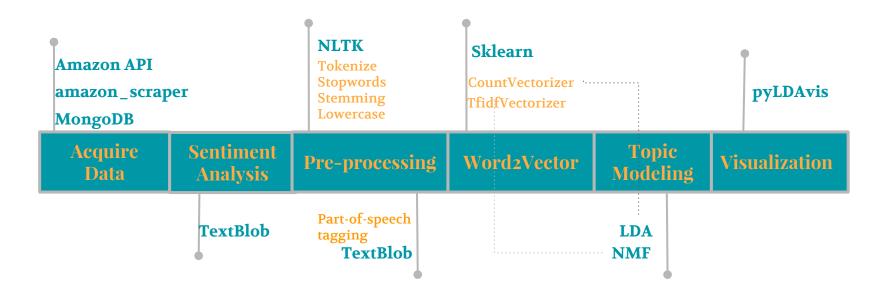


- ★ 1,659 Full Customer Reviews
- **★** Top 4 Best Sellers
- **★** Different styles

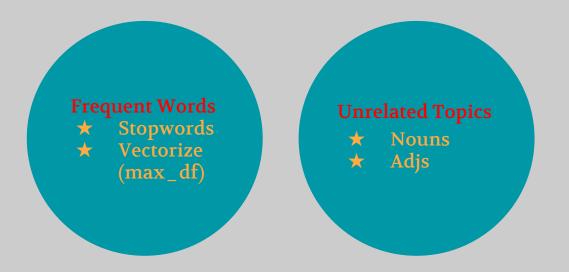


^{*} Amazon accounts for 43% of US online retail sales

Project Workflow



Complications & Solutions



Stopwords

{ re, 's, 'm, n't, 're..., little, would, leggings, yoga, pants, really, pair}

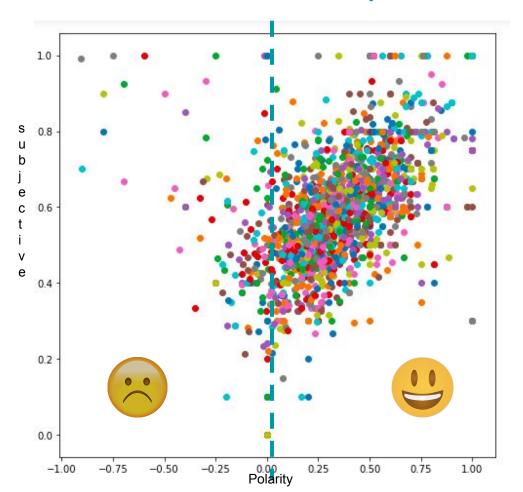
Nouns

{ fit, color, quality, legs, giraffe}

<u>Adjs</u>

{ comfortable, perfect, soft}

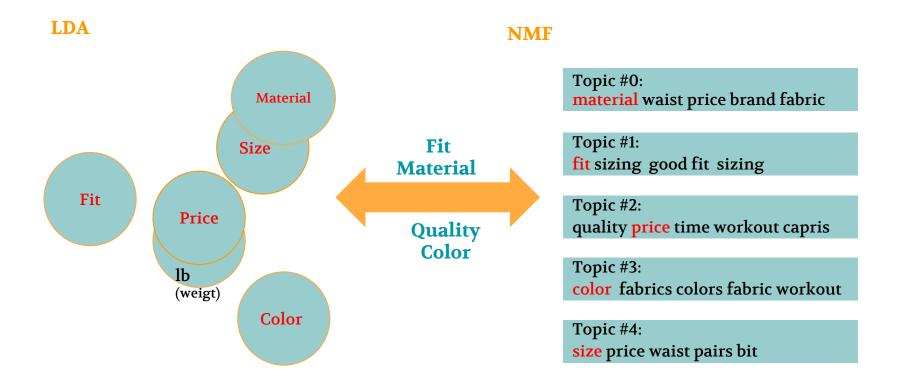
Sentiment Analysis: How do customers feel?





- → Customer reviews are generally positive and subjective.
- → Review score does effectively reflect how customers feel.

What customers really care about: Topics in nouns



^{*} words in red show up in both models

How they describe the products: Topics in adjs

LDA **NMF** Topic #0: Good small big small big box Perfect Topic #1: **Comfortable Great** soft soft fast great fast Topic #2: Comfortable ultra comfortable Soft Topic #3: Nice Fit soft black great soft favorite Comfortable Topic #4: Great Perfect small big small big box

^{*} words in red show up in both models

Business Application: A smarter review platform





What our customers like about this product? ---soft, comfortable

