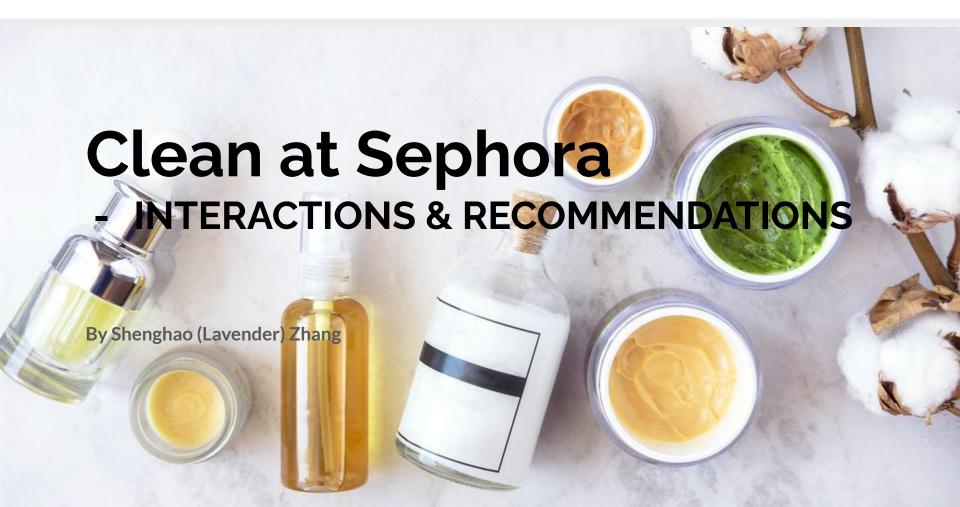
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Today's Agenda

Overview Recommender

System

Problems to

Check

Further Thoughts

Overview: What is Clean at Sephora

Clean at Sephora products are formulated without:Sulfates—SLS + SLES, Parabens, Formaldehydes, Formaldehyde-releasing agents, Phthalates, Mineral Oil, Retinyl Palmitate, Oxybenzone, Coal Tar, Hydroquinone, Triclosan, Triclocarban, etc

How many on their without list: around 50 ingredients



Problems to Look at

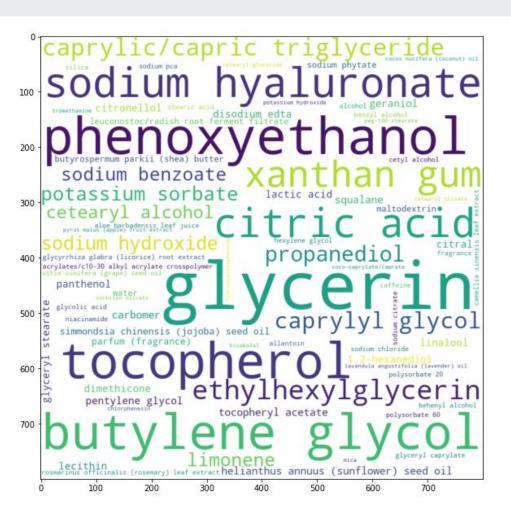
What's Top Clean Ingredients?

What's are the versatile and good products?

Clinical test supports real results?

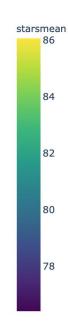
What's our users profile?

Clean Ingredients?

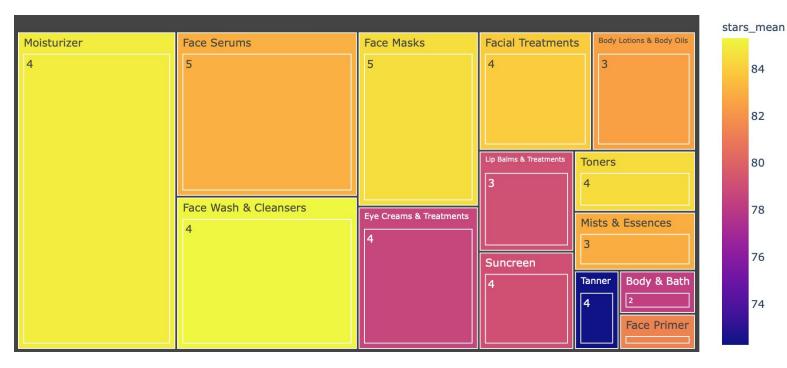


Clinical results grants good? Clinical test might have some guarantees

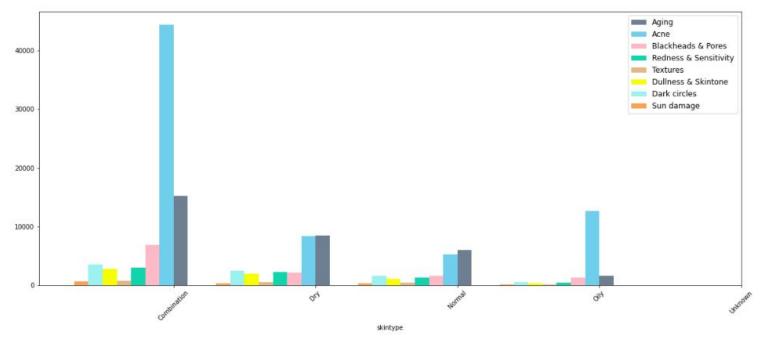




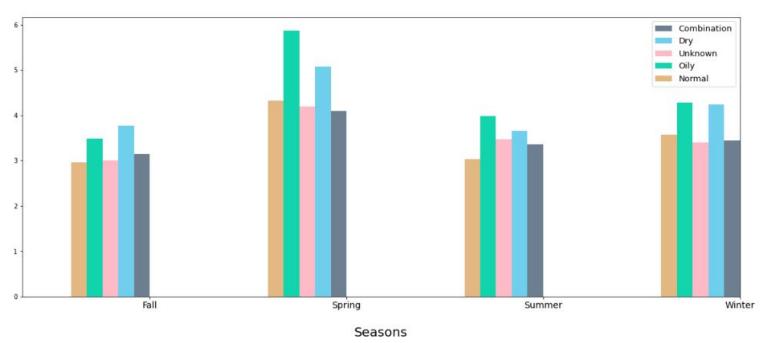
One can do all? Category, Rating, Concerns - Mask is the winner



User's Concerns? Acne is a top concern everywhere.



Who's Words are Trustful? Oily skin users



Recommender Systems

Product similarities

User Product interactions

3 Combination



What are we using to model?

Ratings

User A likes Product B

Users

Skin types, Skin tones, Skin concerns

Products

Ingredients, Skin type, Skin Concern, Awards, Clinical Results, Names, Brands, Categories

Recommender System

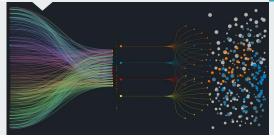


Surprise

User-product interactions

LightFM Hybrid

Product similarity & user similarity





LightFM

Product similarities or User similarities

Recommender System & Accuracies

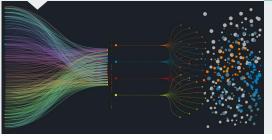


Surprise

87.5%

LightFM Hybrid

86.25%

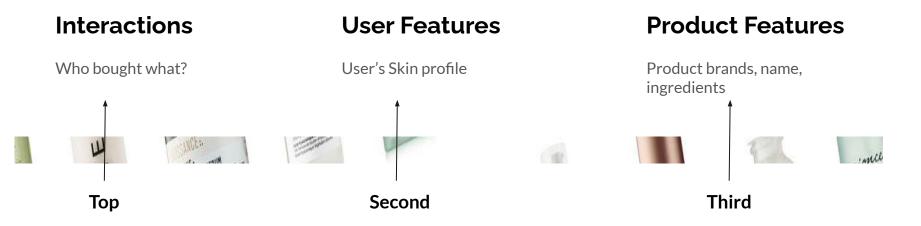




LightFM

User only: 87.3% Product only: 81%

Findings



Note for Sephora

User > Product?

User experiences speaks a lot more than a product

Further Thoughts

- What about User Similarities?
 - Recommender system should be more than user-product interaction
- What about Geographical Features?
- What about Product Change through Time?
- What about Visual Features of Products?

