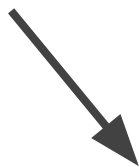


Makeup Review Engine

Yichen Hsueh
Chihung Hsieh

Motivation



amazon



SEPHORA



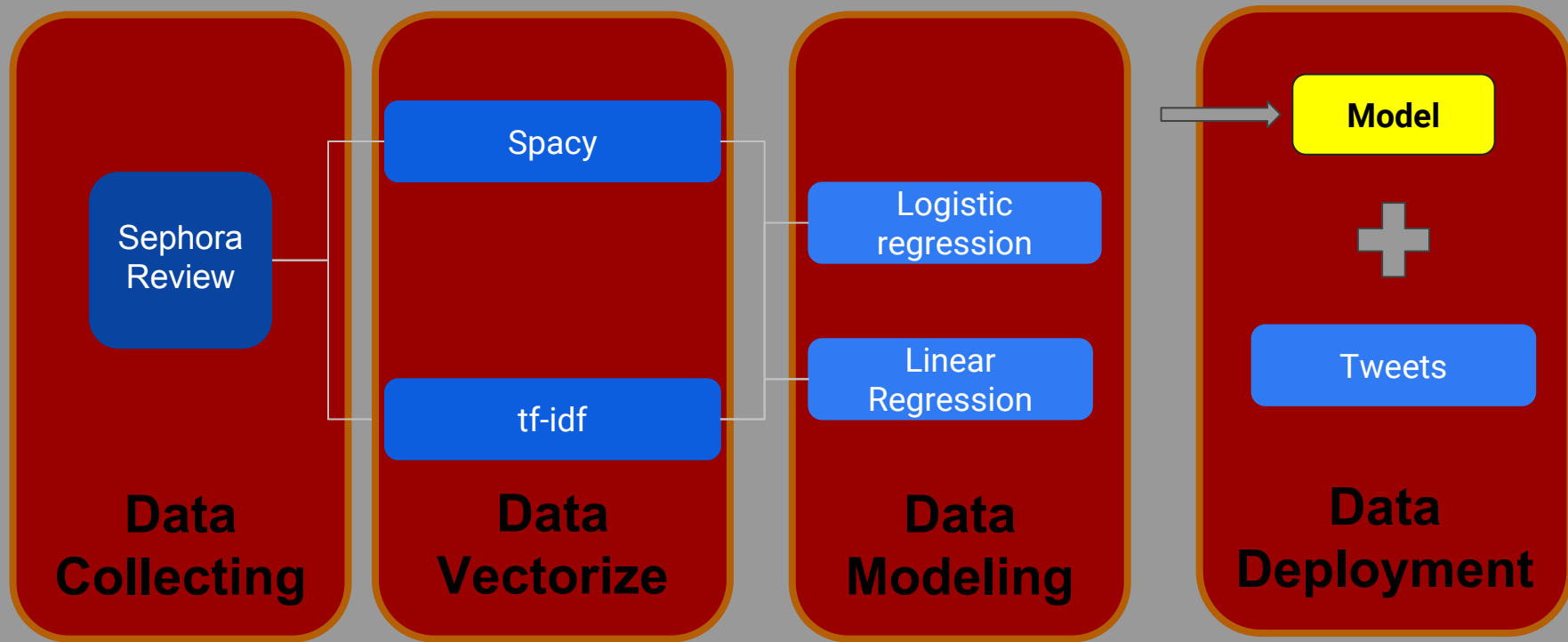
twitter



Goal

“To help customers
finding their
preferred product by
analyzing customer
reviews”

Flow



Experiment

- Pseudo Score
- Auto Summary

— — —

Data Collecting

- Collected data from Sephora Eyeshadow 63 products, 20842 reviews, stored in MongoDB
- Based on 63 products, collected relevant 10726 tweets



← **Label**

1 Apr 2017

gorgeous balm

Great tint, texture, and smell. These are like an oil consistency, and have a great staying power. Very lightweight and comfortable to wear. Love!!!

ReviewText

Data Vectorize & Modeling

— — —

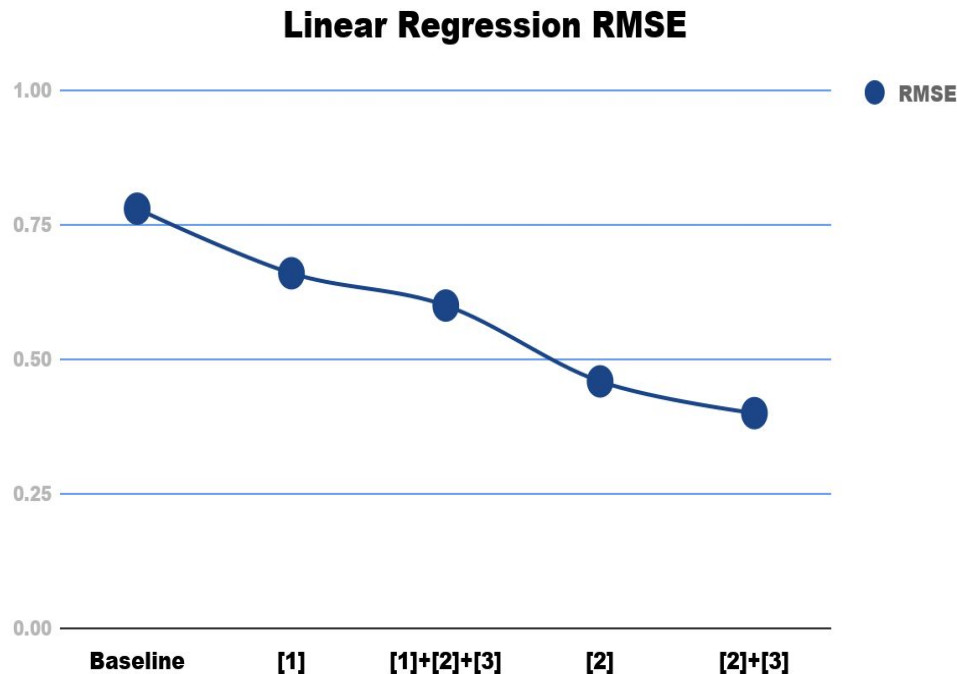
Baseline

- Uni-gram
- tf-idf

[1]:df 5%

[2]:n-gram[1-3]

[3]:Rounded rating

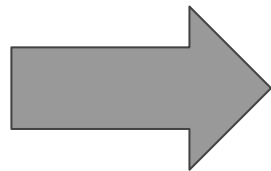


Logistic Regression

Top 10 Positive Keyword

[('tattoo', 26.445089039232112),
('621', 24.194678518198852),
('duh', 20.10567389965062),
('11:30', 19.551347594720983),
('artistri', 19.407293287771047),
('wetter', 19.133090009554795),
('glitterglu', 17.127044465754928),
('outlin', 16.80750950308386),
('cheat', 16.6650174781242),
('fall-off', 16.19202874336911)]

Tune Minimum
Document Frequency



[('amaz', 1.0312141047656285),
('perfect', 1.0265879239509372),
('love', 0.9534794080632091),
('best', 0.9139673049195646),
('i', 0.8615668876606427),
('favorit', 0.7810621053710018),
('easi', 0.7253480806394224),
('highli', 0.711523723387444),
('great', 0.7009579690809649),
('day', 0.6552839280874101)]

Deployment

- Flask
- Trend

— — —

Web Application

— — —

Real-time Review from Twitter

Find most interesting eyeshadow review on Twitter

Sephora review:

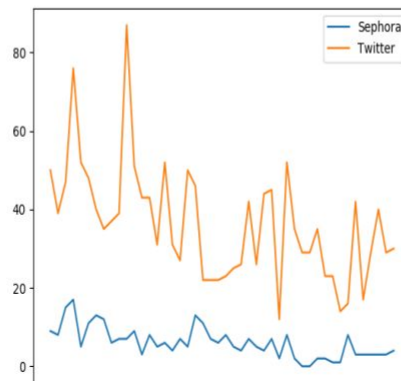
NARS Duo Eyeshadow 4.4783

2283

Twitter review:

1689

Review Trend:



2018/4/15

Makeup Review Analysis

Score:

4.6027235050325634

Future Work

- Better Model
- Auto summary

— — —

Want to Try List

— — —

- Non-linear regression
- Linear SVM
- LSTM