

We Suggest Coffee (a Second Shot)!

Using data engineering to bring a coffee recommender to production

Motivation

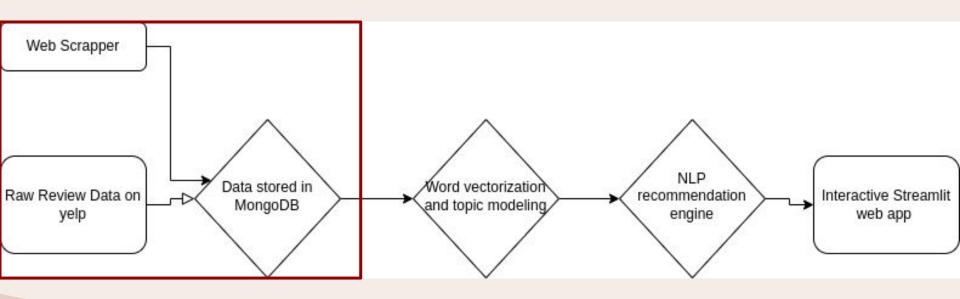
 Acquire data specific to Seattle

 Deployment of model to the web

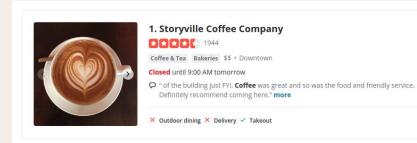
• Still drinking coffee every morning!



Data pipeline



Data





2. Moore Coffee Shop

1138

Coffee & Tea Sandwiches Waffles \$ • Belltown

Closed until 7:30 AM tomorrow

"I wish I could this coffee shop a billion stars! What a great experience! First time there and I" more

✓ Takeout



3. Anchorhead Coffee

*** 604

Coffee & Tea Bakeries \$\$ • Downtown

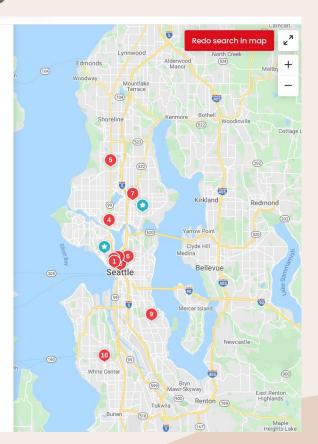
Closed until 7:00 AM tomorrow

 ${f Q}$ "the **coffee** not so much. **Coffee** that is sour is under-extracted, and **coffee** that is bitter" **more**

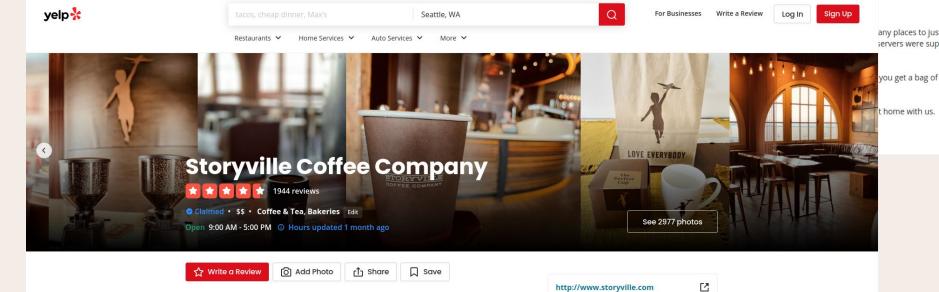
✓ Outdoor dining

X Delivery

✓ Takeout



Data





tables," in 36 reviews

Example Data point



This place is coffee magic. The streets below at Pike Place are packed with not many places to just sit. This upper story coffee shop has a calming vibe with good seating. All of the servers were super friendly.

Even though the coffee itself is expensive, you can sign up and get a free mug! If you get a bag of beans (which are awesome!) you get a free drink.

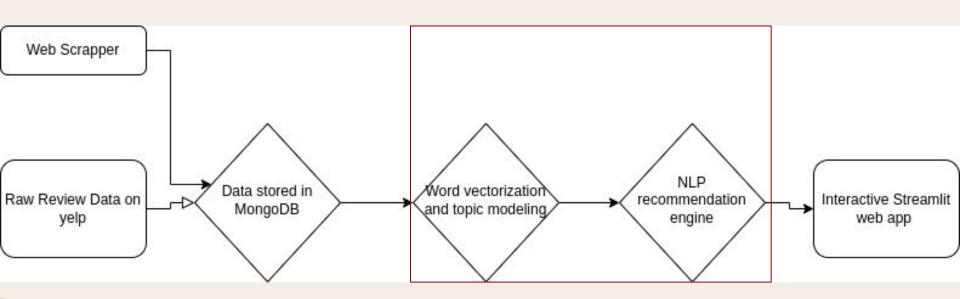
I loved this place and we love our mugs and coffee beans as well that we brought home with us.







Data pipeline

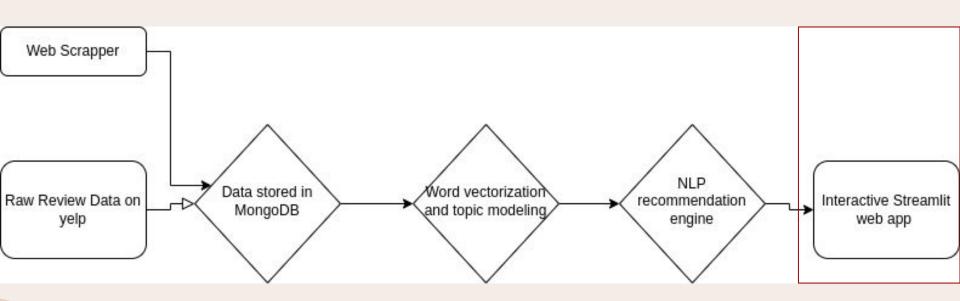


Recommendation Workflow

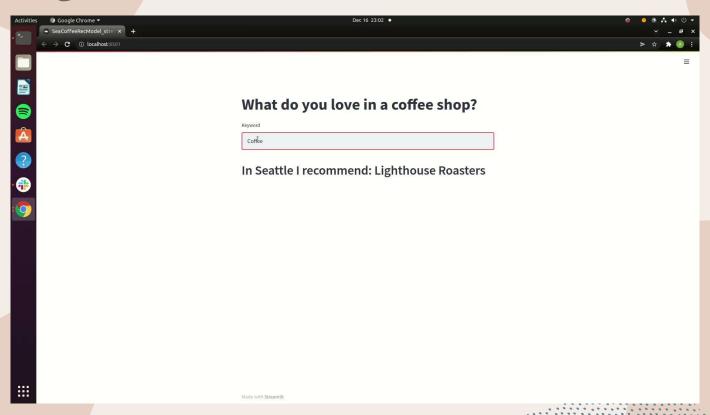


- -Tokenization
- -Vectorization
- -Topic Modeling
- -Recommender

Data pipeline



Recommender in Action





Conclusions

- Data contributed to making a recommender unique to the city I live in
- key-words or phrases can make custom coffee shop recommendations



Future Work

- 1. More sophisticated web app with hyperlinks to recommended shops
- 2. Aggregate data from other business review sites
- 3. Live updates





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Topic 0
espresso, time, barista, ve, drink, cup, work, bean, come, seattle
Topic 1
latte, art, latte art, cute, waffle, nutella, mocha, moore, shop, come
Topic 2
ube, coffeeholic, drink, dream, coffeeholic dream, vietnamese, sweet, order, try, drizzle
Topic 3
pike, market, pike place, place market, pike place market, view, storyville, floor, pike market, away
Topic 4
brew, cold, cold brew, quaffle, nitro, honey, brew latte, cold brew latte, biscuit, pour
Topic 5
love, friendly, staff, shop, service, amazing, seattle, atmosphere, recommend, favorite
Topic 6
free, cake, chocolate, mug, free mug, chocolate cake, email, slice, sign, mocha
Topic 7
milk, latte, almond, almond milk, matcha, pistachio, croissant, milk latte, cinnamon, taste
```

	topic_0	topic_1	topic_2	topic_3	topic_4	topic_5	topic_6	topic_7
name								
Anchorhead Coffee	0.021478	0.011447	0.006148	0.003323	0.038475	0.029756	0.006121	0.039415
Coffeeholic House	0.015423	0.007661	0.111339	0.001149	0.002082	0.024691	0.002943	0.009170
Espresso Vivace Roasteria	0.042371	0.011452	0.005088	0.001700	0.002634	0.019173	0.005391	0.010957
Lighthouse Roasters	0.042727	0.007023	0.003370	0.001586	0.004203	0.022793	0.003491	0.005139
Milstead	0.034366	0.009314	0.003101	0.003191	0.010293	0.033714	0.008532	0.010907

This café's been around for quite some time and you can literally feel the love that goes into their coffee. Lighthouse understands the craft. I've gotten their lattes (both iced and hot) and both were amazing with well-rounded espresso. If you can, bring your dog! They have dog biscuits at the ready:)

'café s time literally feel love go coffee lighthouse understand craft ve get latte iced hot amazing round espresso bring dog dog biscuit ready '

Thanks







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