Where do I travel next?

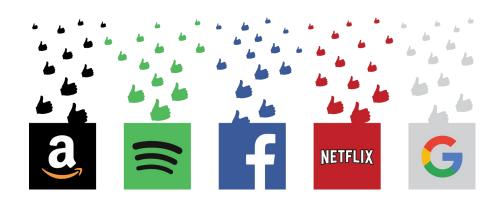
A Recommender System by Meggan Lanpher



What is a Recommender System?

A recommender system (or a recommendation engine) predicts the preferences of a user

- Likes
- Ratings
- Views
- Clicks
- Purchase History



Problem Statement

With around 200 countries in the world, how do I decide on the next one to visit?

The Case for a Recommender System:
Predicting Preferred Travel Destinations for a given user



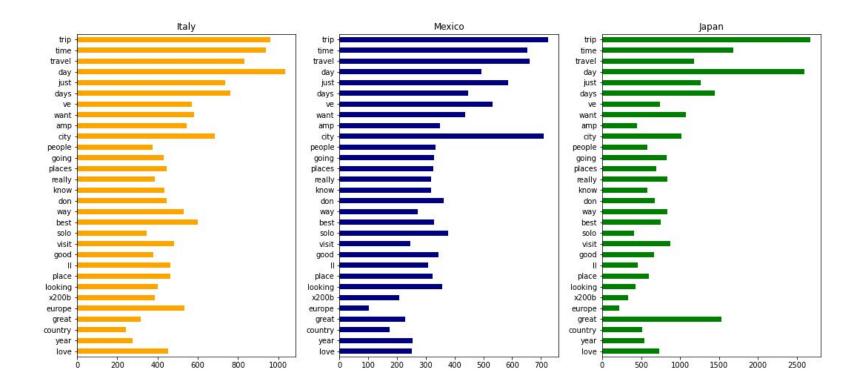
Data Sources

Travel Blogs:

- FathomAway.com
- TheBlondeAbroad.com
- AmateurTraveler.com
- BeMyTravelMuse.com
- NerdNomads.com
- OrdinaryTraveler.com

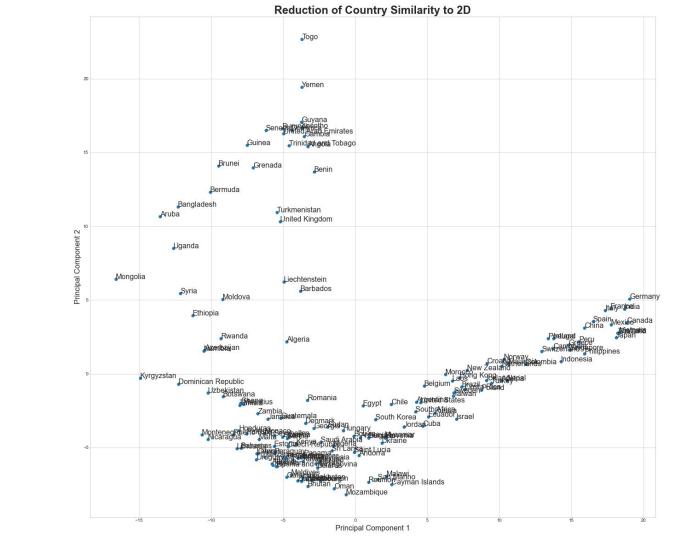
Travel Subreddits:

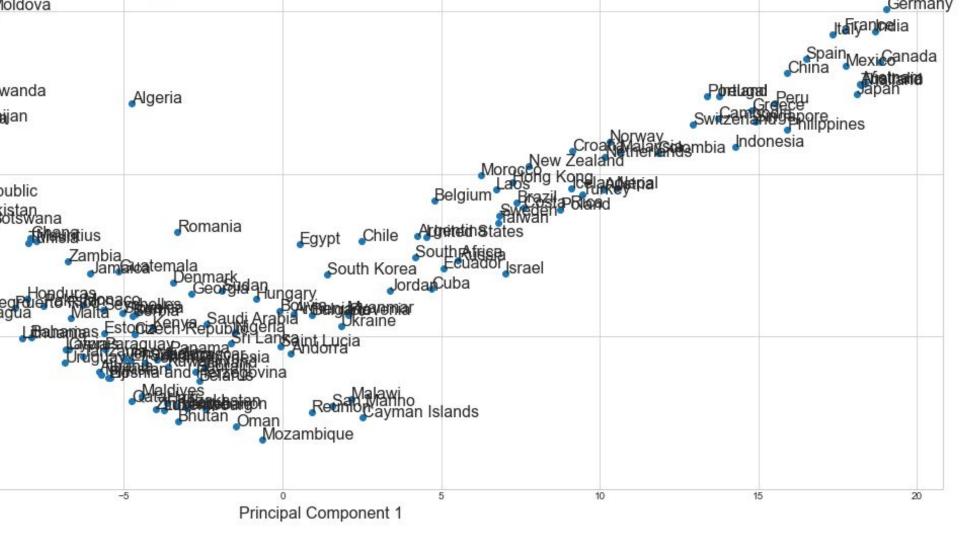
- Travel
- SoloTravel
- Backpacking
- DigitalNomad
- Shoestring
- CampingandHiking
- LongtermTravel
- Wanderlust
- Adventures
- RemotePlaces



Exploratory Analysis

My Travel Recommender System





Countries Similar to USA

Based on travel blog articles & travel-related subreddit posts

	Country	Similarity
0	Ecuador	0.9989795088768005
1	Belgium	0.9985647797584534
2	South Africa	0.9983243942260742
3	Cuba	0.9976262450218201
4	Argentina	0.9972059726715088
5	Russia	0.9962328672409058
6	Laos	0.9943181872367859
7	Chile	0.9939205050468445
8	Morocco	0.9935495257377625
9	Jordan	0.9926018714904785

Case Study

Countries most similar to President Donald Trump

Based on Trump's Facebook Status Messages from the year 2016 'Had a fun time last night ringing in the new year with my beautiful family. Best wishes to everyone for a great 2016!'

- Timestamp('2016-01-01 10:27:18')



'Beautiful evening in Wisconsin- THANK YOU for your incredible support tonight! Everyone get out on November 8th - and VOTE! LETS MAKE AMERICA GREAT AGAIN! -DJT'

- Timestamp('2016-10-17 20:56:51')

ľ	Country	Similarity
0	Saudi Arabia	0.17405492067337036
1	Ghana	0.17097438871860504
2	Moldova	0.16999314725399017
3	Botswana	0.16942322254180908
4	Madagascar	0.16935278475284576
5	Namibia	0.16909722983837128
6	Venezuela	0.16776232421398163
7	Bahrain	0.16573859751224518
8	Mozambique	0.165486678481102
9	Kuwait	0.1652957648038864

How do I Evaluate the System?

Let's test it.



Conclusions

Create targeted predictions based on user input of preferred countries or a general connection to user posts

Business Cases

- ★ Targeted Advertising on Social Media
- ★ Personal Recommendations on Applications for Travel Agencies

Limitations

- No free User input data -- clicks, likes, purchases -- to construct or evaluate the model
- A country is a very large scale

Future Improvements

- Segment by region or city cluster
- Evaluate model with user input

Q&A

Appendix

