

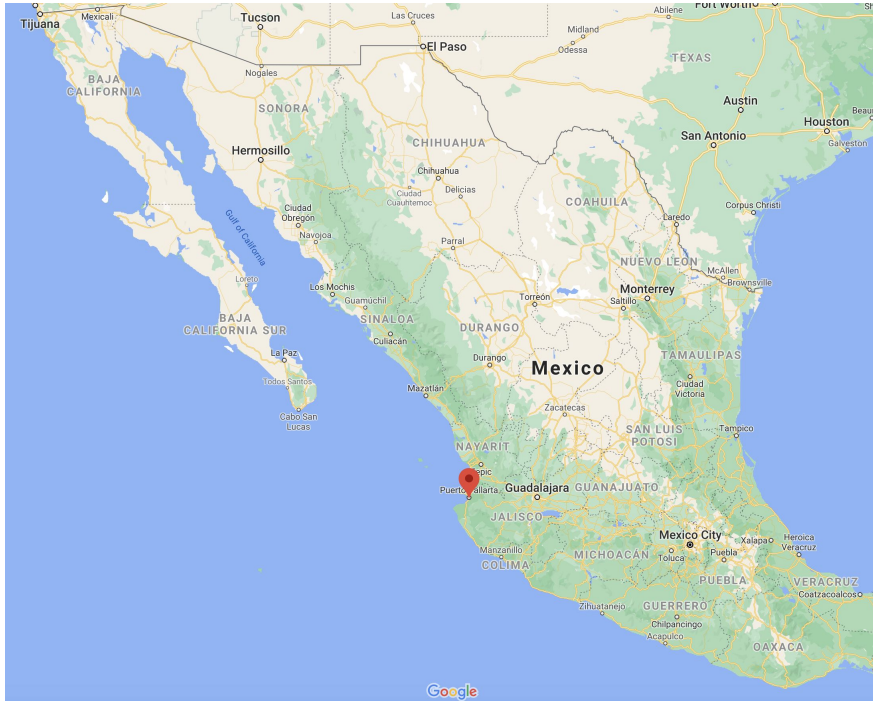
Hotel Recommender for Puerto Vallarta, Mexico

Lindsay Read



PUERTO
VALLARTA

Puerto Vallarta: Inspiration



Goal

Please describe your ideal hotel/lodging

Example: I would like a luxurious hotel that is clean and quiet. It is important to me that the staff is friendly and attentive.

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- ☐ Restaurants Nearby
- ☐ Tourist Attractions Nearby
- ☐ Art Galleries Nearby
- ☐ Gyms Nearby
- ☐ Shopping Malls Nearby
- ☐ Bars Nearby
- ☐ Casinos Nearby
- ☐ Supermarkets Nearby

Methodology

Data Acquisition

Pre-processing

Model Creation

App

01

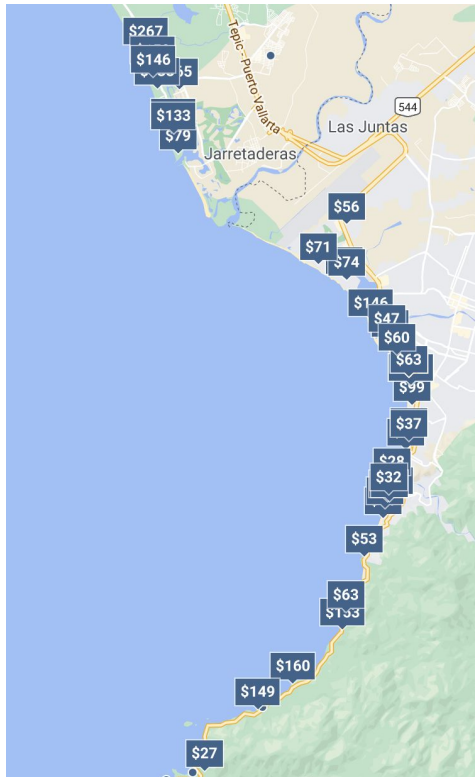
02

03

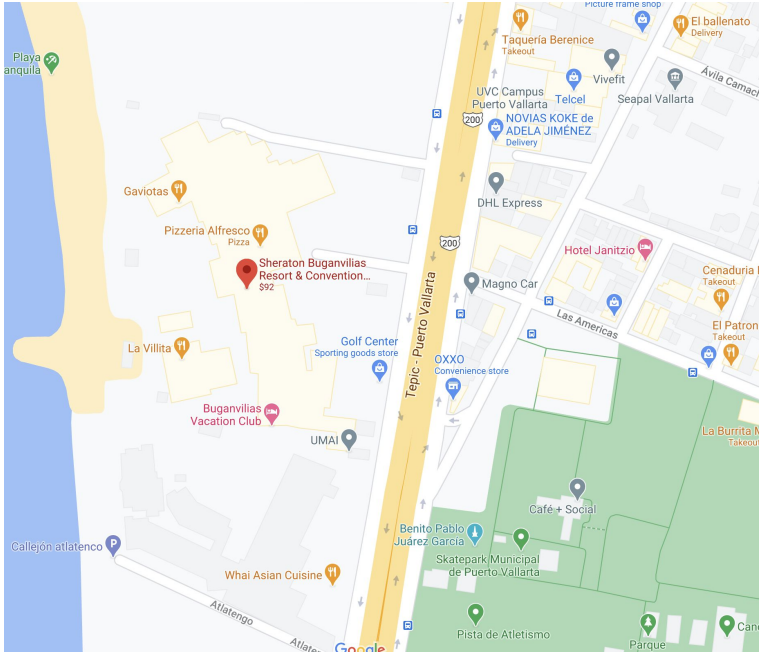
04



Data Acquisition



Data Acquisition



Restaurants

Tourist Attractions

Art Galleries

Gyms

Shopping Malls

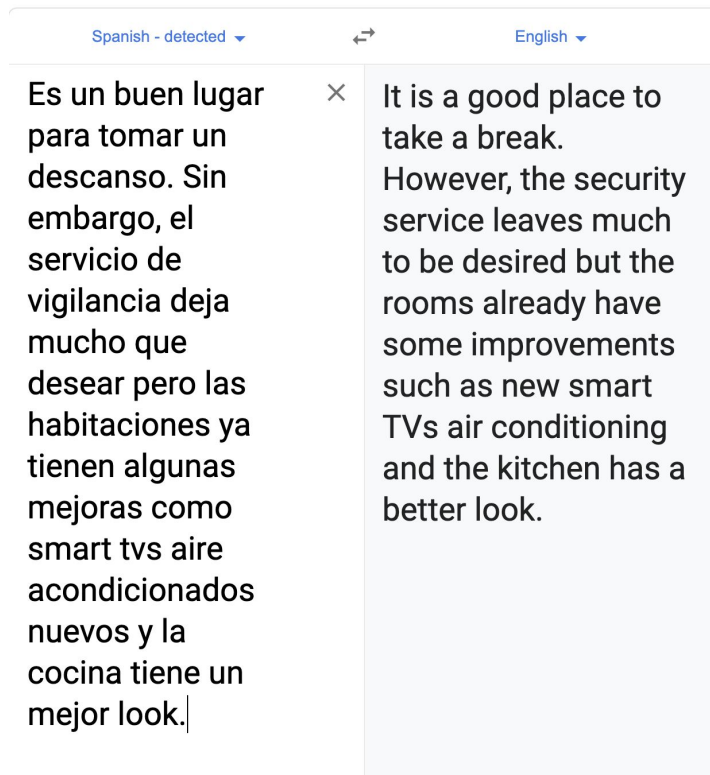
Bars

Casinos

Supermarkets

Data Pre-Processing

1. Google Translate API



Data Pre-Processing

1. Google translate API
2. Clean Text
3. Remove Stop Words

5/5 2 months ago on  Google

Amazing experience, the food is delicious and the staff is kind

Waiters are working with masks and gloves and they sanitize constantly, everything is very clean

Recommended 100%



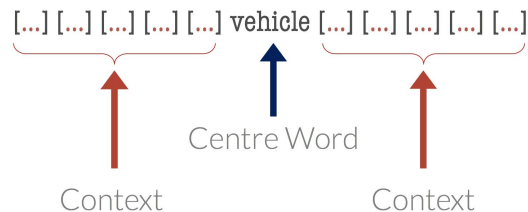
Model: NLP



Bag of words



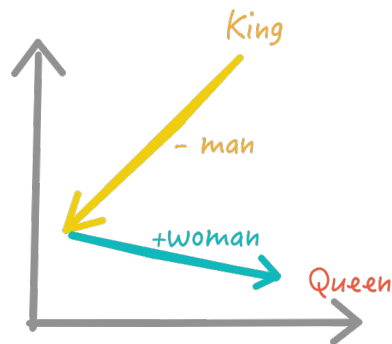
Word Embeddings



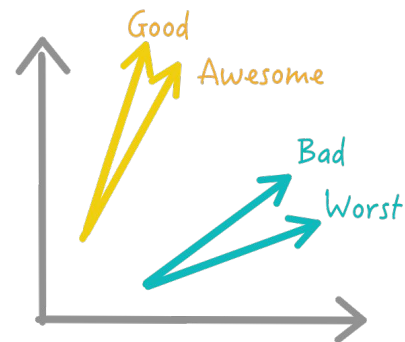
Model: NLP

Word embeddings:

- ✗ a. Spacy
 - i. Built-in Word2Vec
- ✓ b. Gensim
 - i. Google News Word2Vec

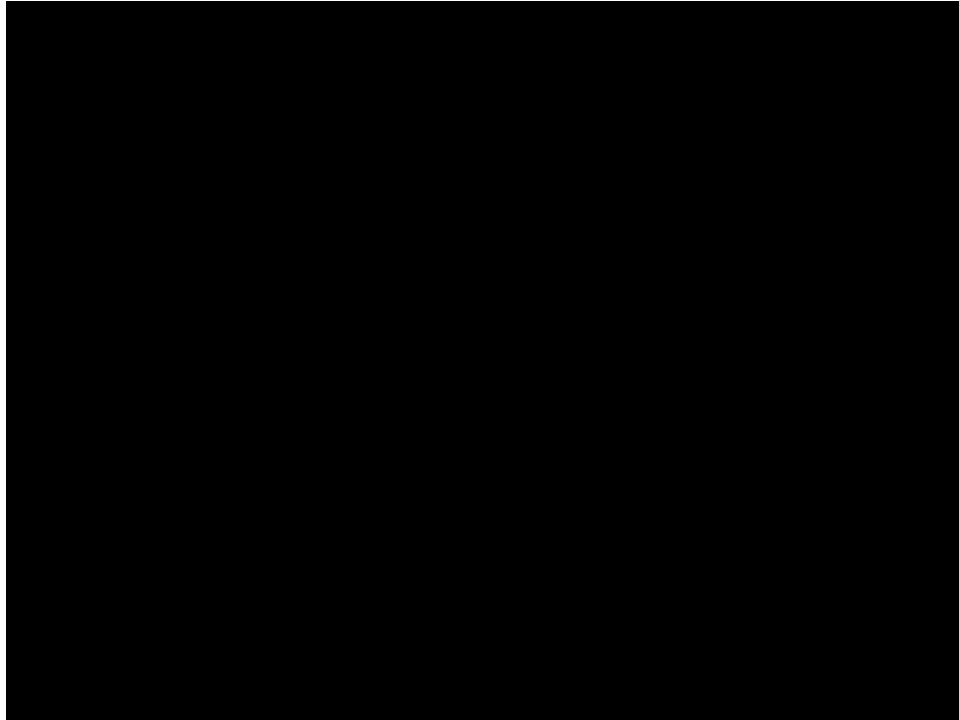


a) Learns Analogy



b) Similar Words have same angles

App Deployment



Results

For the following places, please identify any that are important to you during your stay:

- ☒ Restaurants Nearby
- ☐ Tourist Attractions Nearby
- ☒ Art Galleries Nearby
- ☐ Gyms Nearby
- ☐ Shopping Malls Nearby
- ☐ Bars Nearby
- ☐ Casinos Nearby
- ☐ Supermarkets Nearby

Hotel/Lodging Recommender for Puerto Vallarta, Mexico

Please describe your ideal hotel/lodging

Example: I would like a luxurious hotel that is clean and quiet. It is important to me that the staff is friendly and attentive.

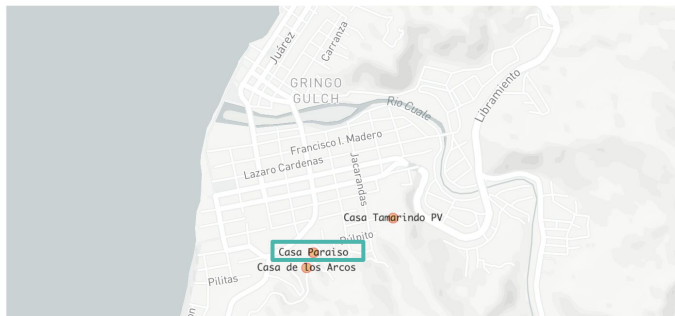
I would like a unique Mexican boutique style hotel with views of the ocean

How many hotel/lodging results would you like returned to you?



Submit Request

Your Top 3 Recommended Hotels Are:



Downtown and Ocean Views

Your Own Personal Concierge

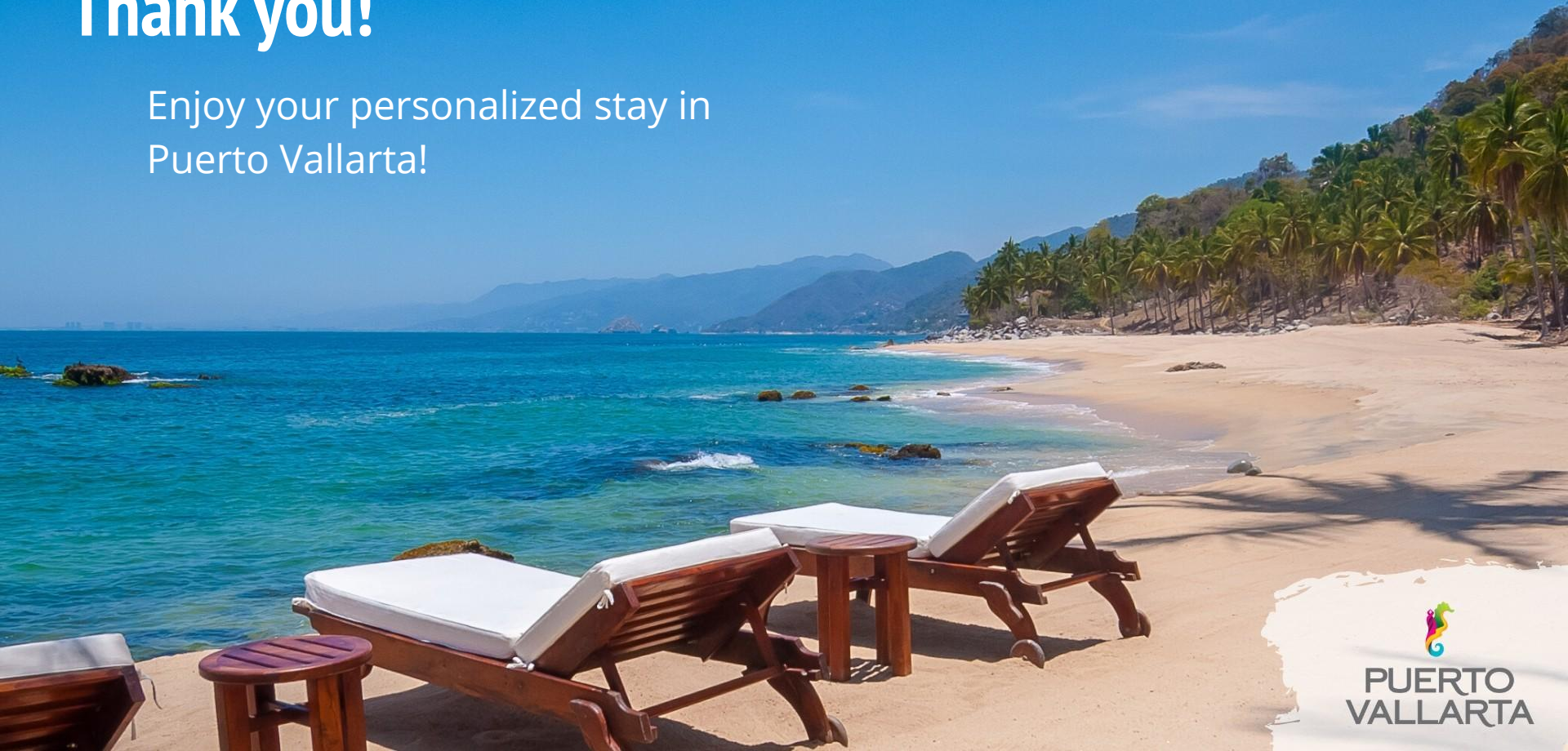
Daily Housekeeping and Coffee

Casa Paraiso Mexico

Casa Paraiso is a gorgeous 4 bedroom villa that has been built in a classic Mexican hacienda style which includes all the rich architectural details of a historical home without sacrificing any of the luxury comforts and amenities you'd expect.

Thank you!

Enjoy your personalized stay in
Puerto Vallarta!



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Github: <https://github.com/lindsayread>