

Capstone Project Sprint 3

**Vancouver Attraction
Recommendation**

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INTRODUCTION

- **Business Problem**
 - Impromptu travel planning is time-consuming
- **Proposed Solution**
 - Recommendation system based on user location and interest
- **Potential Impact**
 - Saves Research Time
 - Simplify Decision-Making



DATA COLLECTION AND CLEANING



GOOGLE MAP EXTRACTOR

Collection Vancouver
attraction information

GEOAPIFY

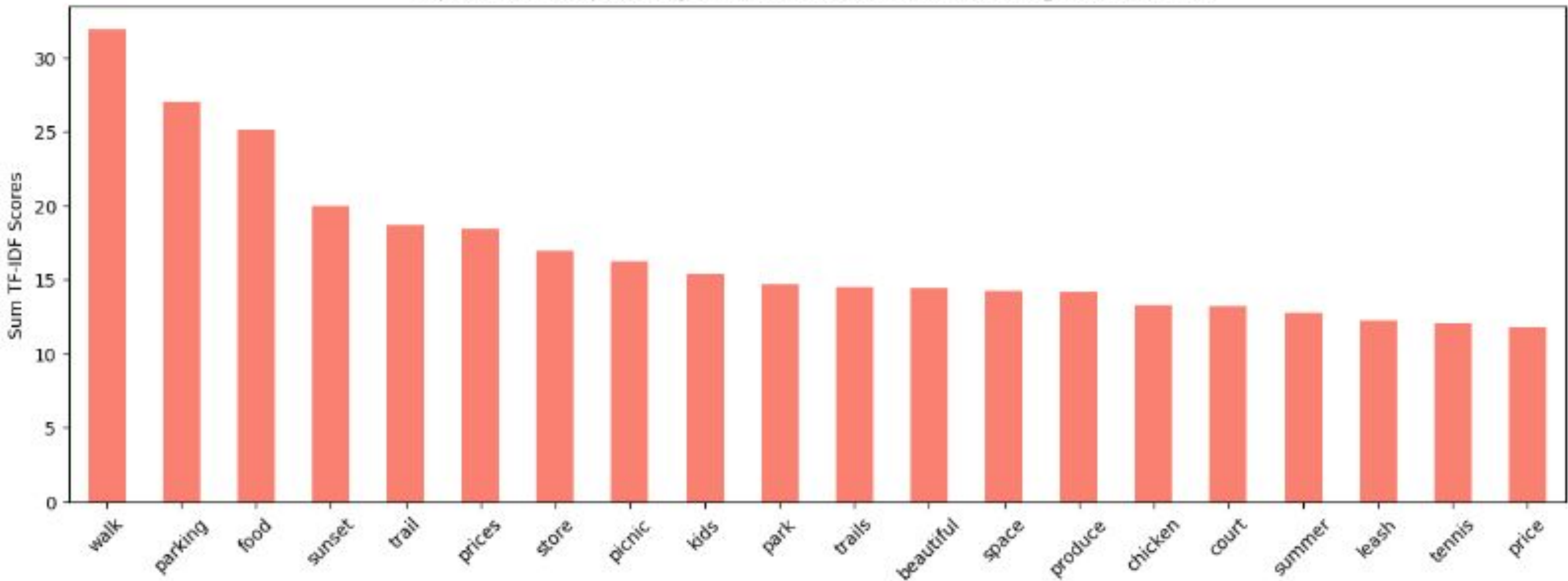
Collect geographical
information

CLEANING PROCESS

Remove duplicates, fill
missing data, remove
geographical outliers

REVIEW KEYWORDS

Top 20 Most Frequent Keywords in Attraction Reviews Using TfidfVectorizer



CONTENT BASED RECOMMENDATION



USER INPUT

City & Interest



REVIEW KEYWORDS

TfidfVectorizer & Cosine
Similarity



OUTPUT

Top 5 Attractions to Visit

Ella the Explorer

- **37-year-old**
- **New User seeking tailored attraction options**
 - **Interest: Parks**
 - **Current City: Burnaby**
- **Solution: Curated recommendation for effortless travelling**



Ella's Recommendation

Based on her city location and interest, these are the following recommendations

Model Evaluation: Similarity Scores closer to 0 means that the matches are poor


NOTE: Recommendation also considers users input on a name of attraction


	name	similarity	rating	reviews
	Central Park	0.255532	4.6	6307
	Kensington Park	0.221027	4.4	689
	Burnaby Mountain Park	0.210185	4.8	2852
	Burnaby Mountain Conservation Area	0.183221	4.7	3851
	Burnaby Civic Square	0.105132	4.4	242



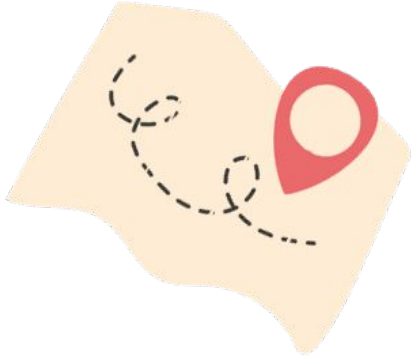


FINAL STEPS

- Modify Geographical Proximity
 - User Interaction
 - Model Evaluation
 - Sentiment Modelling
- 



FUTURE DIRECTION

- Scheduling
 - Budget
 - Map User and Attractions
- 



QUESTIONS? FEEDBACK?



: Thank you for feedback from educators and fellow cohorts!



CREDITS



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SlidesCarnival for the presentation template

Pexels for the photos

Happy designing!