

REC4TRAV

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INTRODUCTION

In our project, we aimed to suggest suitable places within a certain distance to users for a better travel experience and to increase sociality. In addition, we proceeded by taking into account that the interface is easy and understandable. Thus, we designed an application that can predict further increase in communication, popularity and travel experiences.

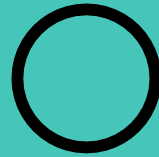


WHY REC4TRAV IS NECESSARY?



EASY ACCESIBILITY

Users will be able to access the app thanks to their mobile phones.



EXPOLATION

Users will be able to discover new places.



SHARING WITH COMMUNITY

Users will be able to show the places they have visited on the in- app social media platform.



PERSONAL ADVICE

By using the user interests, the app will be able to make a suggestion according to this determination.

TECHNOLOGY USED

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ANDROID



IOS



Flutter



Dart



SwiftUI
Better apps. Less code.



Firestore



Visual Studio Code



Firestore



Xcode

ALAMOFIRE



POSTMAN

Android Studio



COCOAPODS



Combine



SDWebImage



Machine Learning

Datasets

This part has three datasets:

- User.csv
- Collaborative.csv
- Content.csv

USER DATASET

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Name	Age	Sex	Category	Places
Brown, Mia	30	Female	Wildlife	Jaipur Zoo
LaRotonda, William	34	Male	Heritage	Nahargarh Fort, Amber Fort
Steans, Tyrone	31	Male	Heritage	Amer Fort / Amber Fort, Jal Mahal
Howard, Estelle	32	Female	Pilgrimage	Birla Mandir, Jama Masjid
Singh, Nan	30	Female	Heritage	Hawa Mahal
Smith, Leigh Ann	30	Female	Heritage	Maharani Ki Chhatri, Hawa Mahal
LeBlanc, Brandon R	33	Male	Pilgrimage	Moti Dungri Ganesh Temple, Akshardham
Quinn, Sean	33	Male	Park	Kanak Vrindavan Garden
Boutwell, Bonalyn	31	Female	Heritage	City Palace / Sawai Man Singh II Museum
Foster-Baker, Amy	39	Female	Pilgrimage	Akshardham Temple
King, Janet	63	Female	Heritage	Panna Meena Ka Kund
Zamora, Jennifer	38	Female	Heritage	Jantar Mantar
Becker, Renee	32	Female	Pilgrimage	Khole Ke Hanuman Ji Temple, Moti Dungri
Goble, Taisha	46	Female	Heritage, Museum	Albert Hall Museum
Hernandez, Daniiff	31	Male	Pilgrimage	Garh Ganesh Temple
Horton, Jayne	34	Female	Heritage	Jal Mahal
Johnson, Noelle	31	Female	Heritage, Pilgrimage	Jama Masjid / Akbari Mosque - Amer
Murray, Thomas	29	Male	Heritage	Rambagh Palace
Pearson, Randall	33	Male	Park	Central Park
Petrowsky, Thelma	33	Female	Heritage	Jaigarh Fort
Roby, Lori	36	Female	Park	Jawahar Circle Garden
Rogers, Ivan	31	Male	Heritage	Gatore ki Chhatriyan
Salter, Jason	30	Male	Heritage	Statue Circle / Sawai Jai Singh Circle
Simard, Kramer	48	Male	Pilgrimage	ISKCON Temple
Zhou, Julia	39	Female	Heritage	Samode Palace / Samode Bagh
Foss, Jason	37	Male	Heritage	Sargasuli Tower / Isar Lat
Roup, Simon	45	Male	Heritage, Pilgrimage	Srijagat Siromaniji Temple
Ruiz, Ricardo	54	Male	Museum	Anokhi Museum Of Hand Printing
Monroe, Peter	31	Male	Heritage	Amar Jawan Jyoti
Dougall, Eric	47	Male	Heritage, Pilgrimage	Digamber Jain Mandir Sanghiji
Clayton, Rick	32	Male	Heritage, Pilgrimage	Govind Devji Temple
Galia, Lisa	49	Female	Museum	SRC Museum Of Indology
Lindsay, Leonara	29	Female	Wildlife	Jaipur Zoo
Soto, Julia	45	Female	Heritage	Nahargarh Fort
Bacong, Alejandro	30	Male	Heritage	Amer Fort / Amber Fort
Cisco, Anthony	28	Male	Pilgrimage	Birla Mandir

COLLABRATIVE DATASET



userId	itemId	rating	timestamp
1	1		881250949
1	2	3	891717742
1	3	1	878887116
1	4		880606923
1	5	1	886397596
1	6		884182806
1	7		881171488
1	8	5	891628467
1	9	3	886324817
1	10		883603013
1	11	2	879372434
1	12		879781125
1	13	5	876042340
1	14	3	891035994
1	15		888104457
1	16	3	879485318
1	17		879270459
1	18	2	879539794
1	19		874834944
1	20	2	892079237
1	21	4	886176814
1	22	4	892738452
1	23		877881320
1	24	2	874833878
1	25	4	887736532
1	26		879196566
1	27	5	892430094
1	28		883748450
1	29	4	875747401
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1	31	3	877052329
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2	1		879539727
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2	3		884238860
2	4	4	886890835

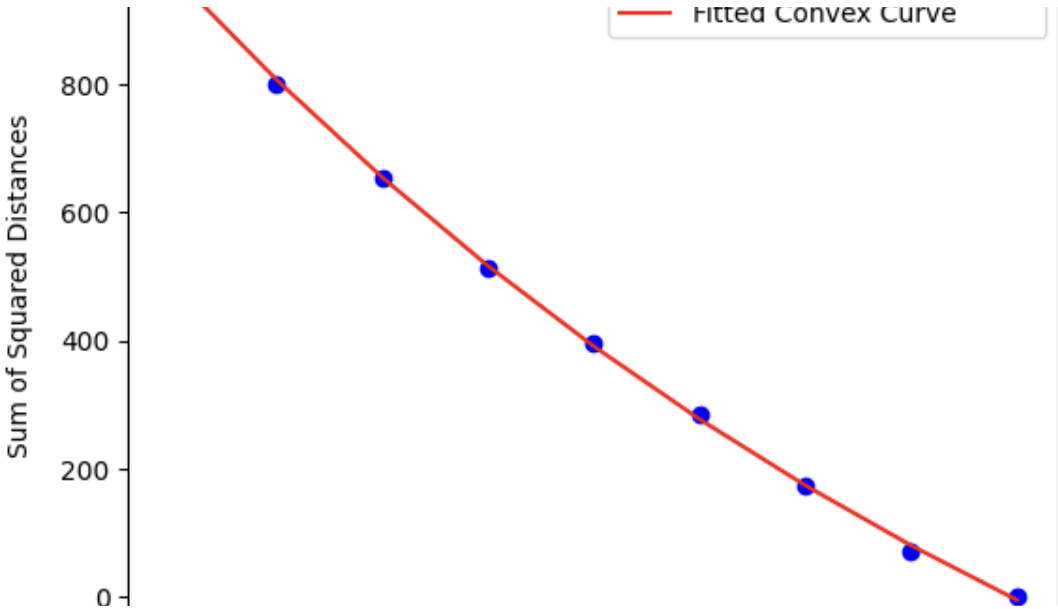
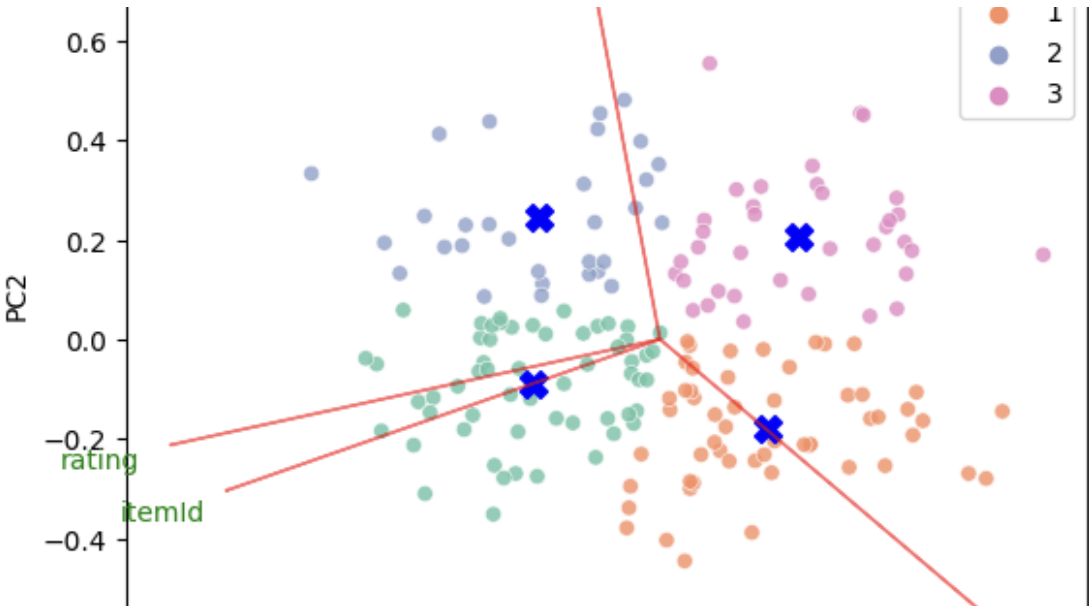
CONTENT DATASET



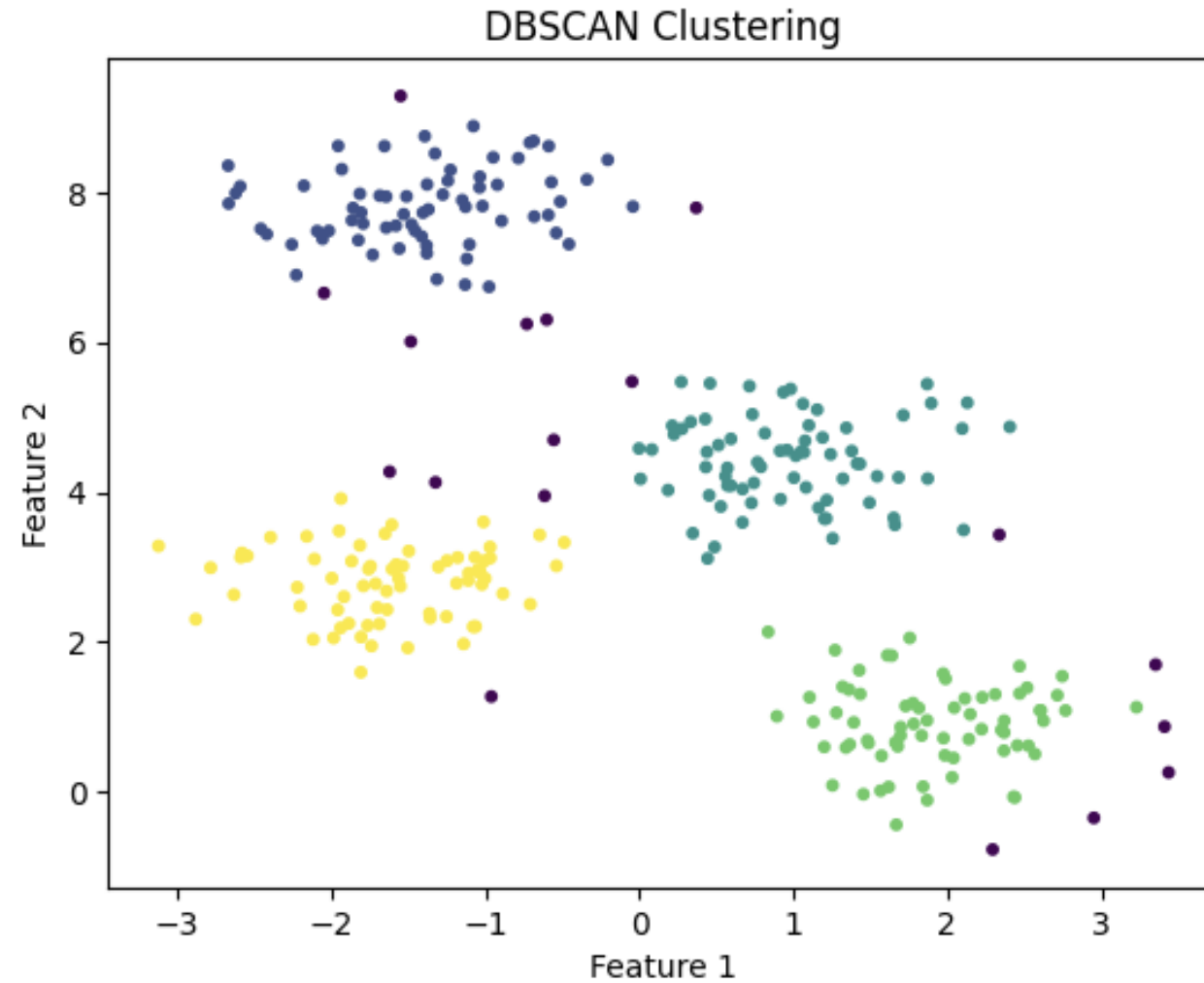
1 to 32 of 32 entries ☐

category	distance	duration	nearby_places	title	url	p_rating	count	itemId
Wildlife	6 Kms	1-2 Hours	None	Jaipur Zoo	/rajasthan/jaipur/jaipur-zoo	2.2	158	1
Heritage	6 Kms	1-2 Hours	None	Nahargarh Fort	/rajasthan/jaipur/nahargarh-fort	4.6	652	2
Heritage	13 Kms	2-3 Hours	Jaigarh Fort (1 km by walk), Srijagat Siromaniji Temple (500m), Panna Meena ka Kund (1 km) & Jama Masjid / Akbari Mosque - Amer (1 km) are situated near Amer Fort and can be visited together.	Amer Fort / Amber Fort	/rajasthan/jaipur/amer-fort-amber-fort	5	783	3
Pilgrimage	6 Kms	1-2 Hours	None	Birla Mandir	/rajasthan/jaipur/birla-mandir	4.9	482	4
Heritage	6 Kms	30 Mins	None	Hawa Mahal	/rajasthan/jaipur/hawa-mahal	4.2	890	5
Heritage	9 Kms	30 Mins	None	Maharani Ki Chhatri	/rajasthan/jaipur/maharani-ki-chhatri	1.9	656	6
Pilgrimage	6 Kms	30 Mins	None	Moti Dungri Ganesh Temple	/rajasthan/jaipur/moti-dungri-ganesh-temple	4.5	350	7
Park	11 Kms	1 Hour	None	Kanak Vrindavan Garden	/rajasthan/jaipur/kanak-vrindavan-garden	2	700	8
Heritage	5.5 Kms	1-2 Hours	Hawa Mahal (One the edge of City Palace), Jantar Mantar (adjacent to City Palace), Govind Devji Temple (Inside City Palace Complex), Sargasuli Tower / Isar Lat (Near Tripolia Gate of City Palace) can be visited along with City Palace.	City Palace / Sawai Man Singh II Museum	/rajasthan/jaipur/city-palace-sawai-man-singh-ii-museum	3.2	25	9
Pilgrimage	6.5 Kms	1-2 Hours	None	Akshardham Temple	/rajasthan/jaipur/akshardham-temple	5	345	10
Heritage	14 Kms	30 Mins	None	Panna Meena Ka Kund	/rajasthan/jaipur/panna-meena-ka-kund	4.8	120	11
Heritage	5.5 Kms	1 Hour	This is UNESCO World Heritage Site	Jantar Mantar	/rajasthan/jaipur/jantar-mantar	1.5	456	12
Pilgrimage	11 Kms	1-2 Hours	None	Khole Ke Hanuman Ji Temple	/rajasthan/jaipur/khole-ke-hanuman-ji-temple	3.5	990	13
Heritage, Museum	6 Kms	1-2 Hours	None	Albert Hall Museum	/rajasthan/jaipur/albert-hall-museum	4	222	14
Pilgrimage	7 Kms	30 Mins	None	Garh Ganesh Temple	/rajasthan/jaipur/garh-ganesh-temple	1.5	43	15
Heritage	11 Kms	1 Hour	Maharani ki Chhatri (1 km from Jal Mahal), Kanak Vrindavan Garden (1 km from Jal Mahal) can be visited along with Jal Mahal.	Jal Mahal	/rajasthan/jaipur/jal-mahal	4.2	678	16
Heritage, Pilgrimage	13.5 Kms	30 Mins	None	Jama Masjid / Akbari Mosque - Amer	/rajasthan/jaipur/jama-masjid-akbari-mosque-amer	2	789	17
Heritage	6 Kms	1 Hour	This is currently a private hotel, but visitors are allowed to take a tour of the palace.	Rambagh Palace	/rajasthan/jaipur/rambagh-palace	3.2	567	18
Park	4 Kms	1 Hour	None	Central Park	/rajasthan/jaipur/central-park	3.8	245	19
Heritage	15 Kms	1-2 Hours	This is usually visited from Amer Fort (1 km by walk)	Jaigarh Fort	/rajasthan/jaipur/jaigarh-fort	4.5	890	20
Park	13 Kms	1-2 Hours	None	Jawahar Circle Garden	/rajasthan/jaipur/jawahar-circle-garden	4.2	13	21
Heritage	7 Kms	1 Hour	None	Gatore ki Chhatriyan	/rajasthan/jaipur/maharaja-ki-chhatri-gaitor	1	123	22
Heritage	4 Kms	30 Mins	None	Statue Circle / Sawai Jai Singh Circle	/rajasthan/jaipur/statue-circle-sawai-jai-singh-circle	5	67	23
Pilgrimage	14 Kms	2 Hours	None	ISKCON Temple	/rajasthan/jaipur/iskcon-temple	3.9	412	24
Heritage	40 Kms	4 Hours/Half Day	None	Samode Palace / Samode Bagh	/rajasthan/jaipur/samode-palace-samode-bagh	4.8	25	25
Heritage	5 Kms	15 Mins or Less	None	Sargasuli Tower / Isar Lat	/rajasthan/jaipur/sargasuli-tower-isar-lat	3.5	654	26
Heritage, Pilgrimage	14 Kms	30 Mins	None	Srijagat Siromaniji Temple	/rajasthan/jaipur/srijagat-siromaniji-temple	2.9	134	27
Museum	14 Kms	2 Hours	None	Anokhi Museum Of Hand Printing	/rajasthan/jaipur/anokhi-museum-of-hand-printing	1.7	560	28

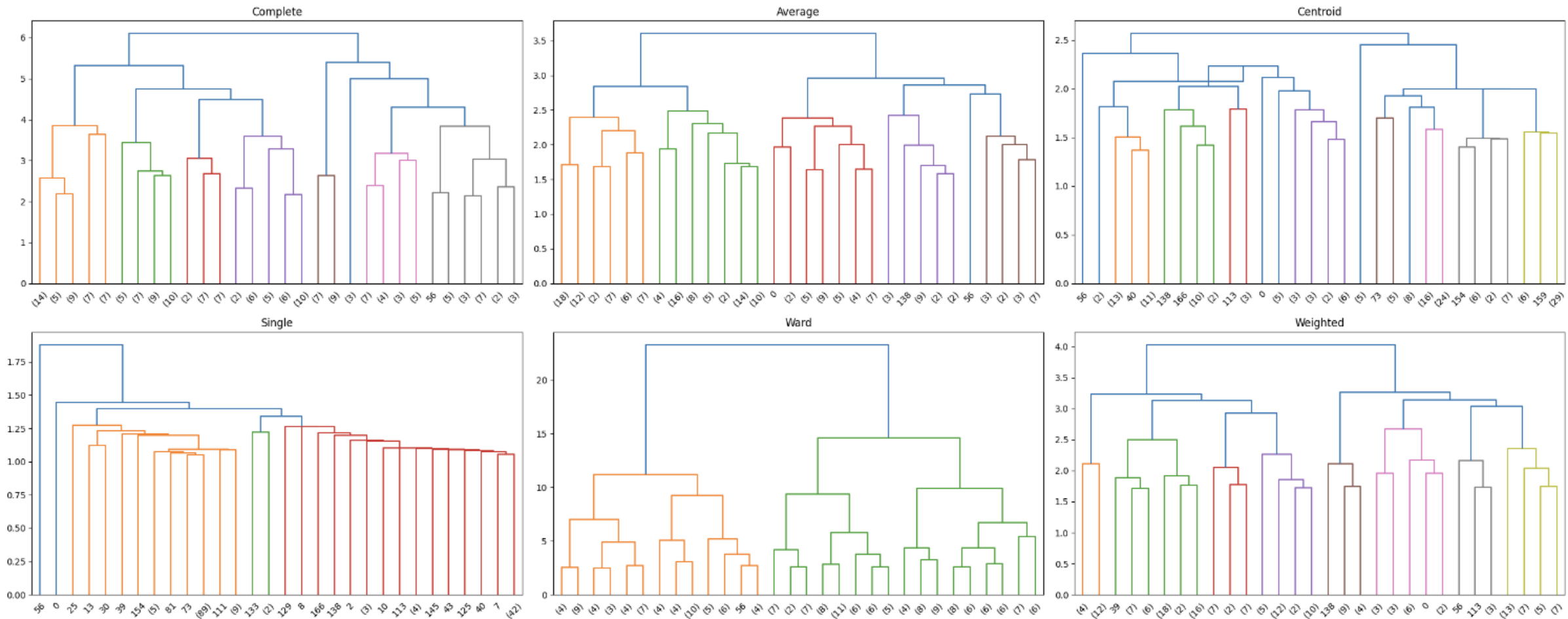
K MEANS CLUSTERING



DBSCAN CLUSTERING



HIERARCHICAL CLUSTERING



Recommendation Part

Enter userid: 4

The recommended places for you are:

The user's top pf the fav. places are:

[]

['Govind Devji Temple']

['Govind Devji Temple', 'Maharani Ki Chhatra']

['Govind Devji Temple', 'Maharani Ki Chhatra', 'Anokhi Museum Of Hand Printing']

['Akshardham Temple', 'Rambagh Palace', 'Jaigarh Fort', 'Statue Circle / Sawai Jai Singh Circle']

['Akshardham Temple', 'Rambagh Palace', 'Amar Jawan Jyoti', 'SRC Museum Of Indology']

['Nahargarh Fort', 'Birla Mandir', 'Hawa Mahal', 'City Palace / Sawai Man Singh II Museum']

REFERENCES



[https://github.com/CankayaUniversity/
ceng-407-408-2022-2023-Recommendation- System-
for-Travelers/blob/
98500858037cf8f2f1d7e698b5c4b84b11c6c4bc/
2022-05-
RecommendationSystemforTravelers.pdf](https://github.com/CankayaUniversity/ceng-407-408-2022-2023-Recommendation-System-for-Travelers/blob/98500858037cf8f2f1d7e698b5c4b84b11c6c4bc/2022-05-RecommendationSystemforTravelers.pdf)

<https://slidesgo.com/>

<https://github.com/orgs/CankayaUniversity/repositories>



THANKS FOR YOUR
LISTENING

