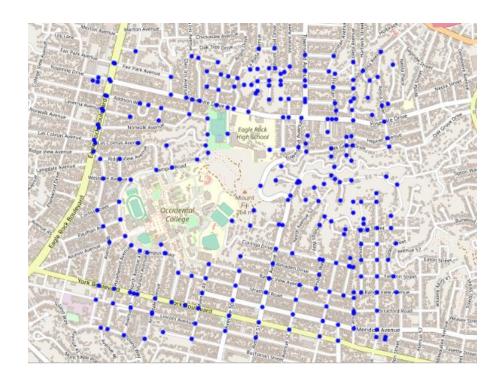
Capstone Project Presentation

Finding Ice cream shop location 10/11/2019

Initial raw data

OBJECTID	ASSETID	CL_NODE_	Х	Υ	LAT	LON	TYPE	CRTN_DT	LST_MOD	USER_ID	FROM_ST	TO_ST	TOOLTIP	ZIP_CODE	NLA_URL		
3001	98966	52918	6374563	1895188	34.19848	-118.619					VOSE ST	D/E	VOSE ST a	91307	navigatela	/reports/	intersecti
3002	98967	52920	6374037	1895146	34.19835	-118.621					VICKY AVE	D/E	VICKY AVE	91307	navigatela	/reports/	intersecti:
3003	98968	52924	6364493	1894846	34.19736	-118.652					ST EDENS	D/E	ST EDENS	91307	navigatela	/reports/	intersecti:
3004	98969	52932	6386270	1895673	34.2	-118.58					ENADIA V	D/E	ENADIA V	91306	navigatela	/reports/	intersecti
3005	98970	52945	6407912	1896310	34.20207	-118.509					CANTLAY:	D/E	CANTLAY	91406	navigatela	/reports/	intersecti
3006	98971	52976	6388200	1897522	34.20511	-118.574					GIFFORD	D/E	GIFFORD	91306	navigatela	/reports/	intersecti
3007	98972	52988	6418380	1897255	34.20481	-118.474					VALERIO S	D/E	VALERIO :	91406	navigatela	/reports/	intersecti

Map of the normalized raw data and specifying all the intersections



Business categories in each intersection using Foursquare

category	Lat	Lon	Tooltip
Other Great Outdoors	34.132000	-118.208375	OLSON ST at D/E
Other Great Outdoors	34.132000	-118.208375	OLSON ST at D/E
High School	34.132000	-118.208375	OLSON ST at D/E
Flower Shop	34.132000	-118.208375	OLSON ST at D/E
University	34.132000	-118.208375	OLSON ST at D/E
College Residence Hall	34.132000	-118.208375	OLSON ST at D/E
Garden	34.132000	-118.208375	OLSON ST at D/E
Building	34.132000	-118.208375	OLSON ST at D/E
Pool	34.132000	-118.208375	OLSON ST at D/E
High School	34.131084	-118.204020	OAK GROVE DR at D/E

Business categories that are neutral and can be removed from the data shown in red, and example of businesses that are desirable to be close is shown in green



Arcade, Clothing Stores, and Schools are desired (for this assignment)

Tooltip	Lon	Lat	category
FALLSTON ST at NOLDEN ST	-118.195284	34.123754	Arcade
LINCOLN AVE at HAZELWOOD AVE	-118.215020	34.122168	Arcade
AVENUE 47 at LINCOLN AVE	-118.213808	34.121936	Arcade
MERIDIAN ST at AVENUE 52	-118.202390	34.121545	Clothing Store
PAULHAN AVE at AVENUE 46	-118.215736	34.126663	Clothing Store
WESTDALE AVE at AVENUE 46	-118.215717	34.129442	Clothing Store
EAGLE ROCK BLVD at RIDGEVIEW AVE	-118.216422	34.130981	Clothing Store
CAMPUS ROAD at ALUMNI AVE	-118.214175	34.126083	Clothing Store
WOODROWAVE at RIDGEVIEWAVE	-118.214557	34.130562	Clothing Store
YORK BLVD at AVENUE 52	-118.202634	34.120662	Clothing Store
PHILLIPS WAY at RANGE VIEW AVE	-118.200758	34.123025	Clothing Store

Joining two data-frames to eliminate intersections close to existing ice cream shops

7	Clothing Store	34.12608	-118.21417	CAMPUS ROAD at ALUMNI AVE	NaN	NaN
8	Clothing Store	34.13056	-118.21456	WOODROWAVE at RIDGEVIEW AVE	NaN	NaN
9	Clothing Store	34.12066	-118.20263	YORK BLVD at AVENUE 52	Ice Cream Shop	YORK BLVD at AVENUE 52
10	Clothing Store	34.12303	-118.20076	PHILLIPS WAY at RANGE VIEW AVE	NaN	NaN
11	Clothing Store	34.12573	-118.21531	AVENUE 46 at ALUMNI AVE	NaN	NaN
12	Clothing Store	34.12059	-118.20713	LINCOLN AVE at AVENUE 50	NaN	NaN
13	Clothing Store	34.12195	-118.20451	MERIDIAN ST at AVENUE 51	Ice Cream Shop	MERIDIAN ST at AVENUE 51
14	Clothing Store	34.12808	-118.21460	CAMPUS ROAD at CORLISS ST	NaN	NaN
15	Clothing Store	34.12240	-118.20215	STRATFORD ROAD at AVENUE 52	NaN	NaN
16	Clothing Store	34.12236	-118.20664	AVENUE 50 at MERIDIAN ST	NaN	NaN
17	Clothing Store	34.12937	-118.21380	WESTDALE AVE at CAMPUS ROAD	NaN	NaN
18	Clothing Store	34.12940	-118.21455	WESTDALE AVE at WOODROW AVE	NaN	NaN
19	Clothing Store	34.13006	-118.21089	CAMPUS ROAD at ESCARPA DR	NaN	NaN
20	Clothing Store	34.12019	-118.20500	LINCOLN AVE at AVENUE 51	NaN	NaN
21	Clothing Store	34.12759	-118.21616	AVENUE 46 at CORLISS ST	NaN	NaN
22	Elementary School	34.13351	-118.21165	ADDISON WAY at NORTH MAYWOOD AVE	Ice Cream Shop	ADDISON WAY at NORTH MAYWOOD AVE
23	Elementary School	34.12282	-118.19508	RANGE VIEW AVE at NOLDEN ST	NaN	NaN
24	Elementary School	34.13652	-118.20950	MONTIFLORA AVE at GLEN IRIS AVE	NaN	NaN

Joining the desired location to find the best locations having multiple desired locations in one place

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FALLSTON ST at NOLDEN S	Elementary School	FALLSTON ST at NOLDEN ST	-118.19528	34.12375	Arcade
FALLSTON ST at NOLDEN S	Arcade	FALLSTON ST at NOLDEN ST	-118.19528	34.12375	Elementary School
MONTIFLORAAVE at GLEN IRIS AVI	Nursery School	MONTIFLORAAVE at GLEN IRIS AVE	-118.20950	34.13652	Elementary School
MONTIFLORAAVE at GLEN IRIS AVI	Nursery School	MONTIFLORAAVE at GLEN IRIS AVE	-118.20950	34.13652	Elementary School
MONTIFLORAAVE at GLEN IRIS AVI	Elementary School	MONTIFLORAAVE at GLEN IRIS AVE	-118.20950	34.13652	Nursery School
MONTIFLORAAVE at GLEN IRIS AVI	Elementary School	MONTIFLORAAVE at GLEN IRIS AVE	-118.20950	34.13652	Nursery School
MONTIFLORAAVE at HIGHLAND VIEWAVI	Nursery School	MONTIFLORAAVE at HIGHLAND VIEWAVE	-118.20902	34.13643	Elementary School

Best locations data-frame and shown on the map

Elementary School	FALLSTON ST at NOLDEN ST	-118.19528	34.12375	Arcade
Nursery School	MONTIFLORAAVE at GLEN IRIS AVE	-118.20950	34.13652	lementary School
Nursery School	MONTIFLORAAVE at HIGHLAND VIEW AVE	-118.20902	34.13643	lementary School
School	ALGOMAAVE at D/E	-118.20486	34.13449	High School
School	LINDA ROSAAVE at D/E	-118.20528	34.13488	High School
School	ALGOMAAVE at D/E	-118.20498	34.13438	High School
School	WARD ST at LINDA ROSAAVE	-118.20582	34.13486	High School
School	OAK GROVE DR at D/E	-118.20402	34.13108	High School
School	YOSEMITE DR at LA RODAAVE	-118.20696	34.13356	High School

