DC21074-Presentation

By Oluwakorede Noren

Introduction

Dataset: VeoRide E-scooter Transportation

Organization Name: UMD Department of Transportation Services

(DOTS)

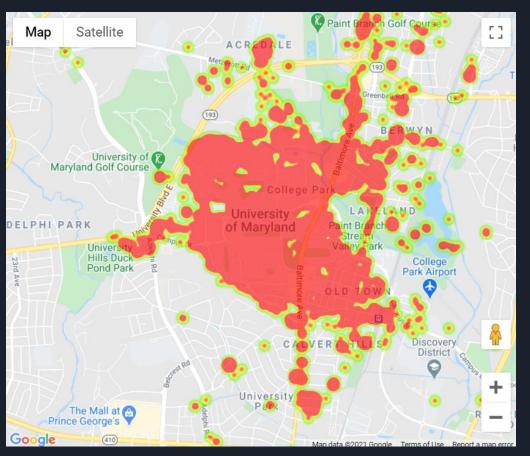


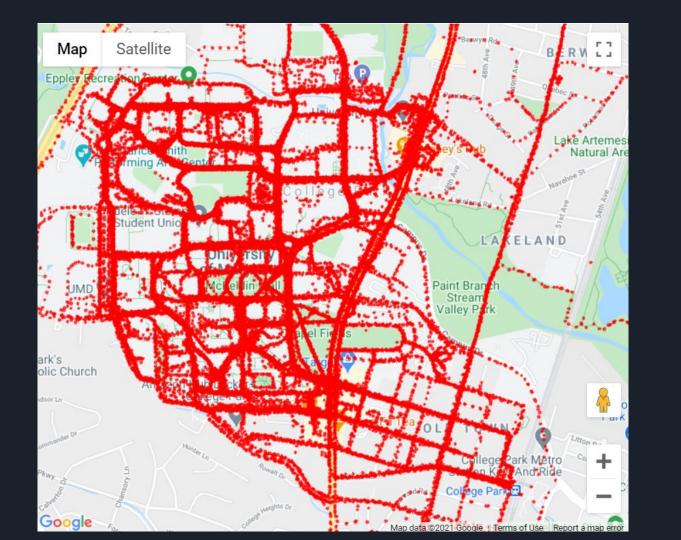
	CREATED	START	END	DISTANCE	RIDE_ID	CUSTOMER_ID	MINUTES	VEHICLE_TYPE	PATH	TIMESTAMPS	STAR
0	And the state of t	2020-10-03 03:32:15+00:00	2020-10-03 03:32:46+00:00	0.008	3135665	193964	1	Scooter	{\n "coordinates": [\n [\n -76.934163	[\n "2020-10- 03T03:32:14Z",\n "2020-10- 03T03	-76.9
1		2020-10-03 03:07:39+00:00	2020-10-03 03:37:06+00:00	1.062	3135395	542947	30	Scooter	{\n "coordinates": [\n [\n -76.938180	[\n "2020-10- 03T03:07:46Z",\n "2020-10- 03T03	-76.9
2		2020-10-03 03:17:05+00:00	2020-10-03 03:24:24+00:00	0.847	3135503	517321	8	Scooter	{\n "coordinates": [\n [\n -76.937599	[\n "2020-10- 03T03:17:12Z",\n "2020-10- 03T03	-76.9
3		2020-10-03 02:24:58+00:00	2020-10-03 03:11:56+00:00	3.447	3134955	578051	47	Scooter	{\n "coordinates": [\n [\n -76.943553	[\n "2020-10- 03T02:25:04Z",\n "2020-10- 03T02	-76.94
4		2020-10-03 03:19:34+00:00	2020-10-03 03:22:45+00:00	0.386	3135529	552305	4	Scooter	{\n "coordinates": [\n [\n -76.938115	[\n "2020-10- 03T03:19:40Z",\n "2020-10- 03T03	-76.93
		***	2005	***	***	115		***	, det 0	d+63	

Objectives

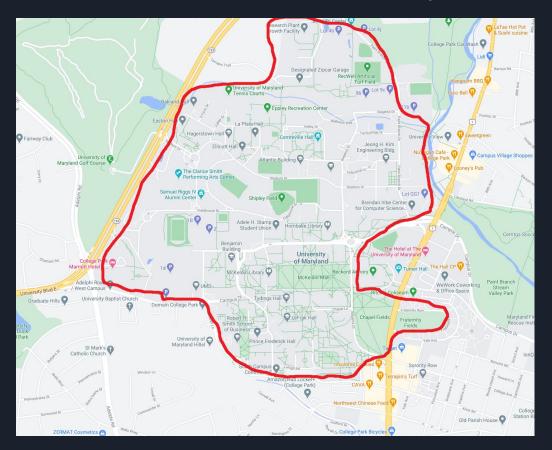
- Plot coordinates on Google Map
- Find rides that are on/off campus
- Create datetime columns
- Answer analysis questions using dataset

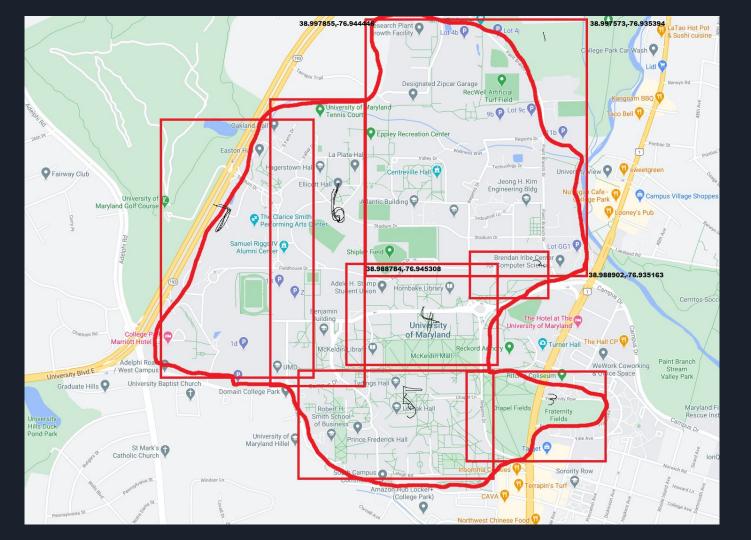
Plot coordinates on Google Map





Find rides that are on/off campus

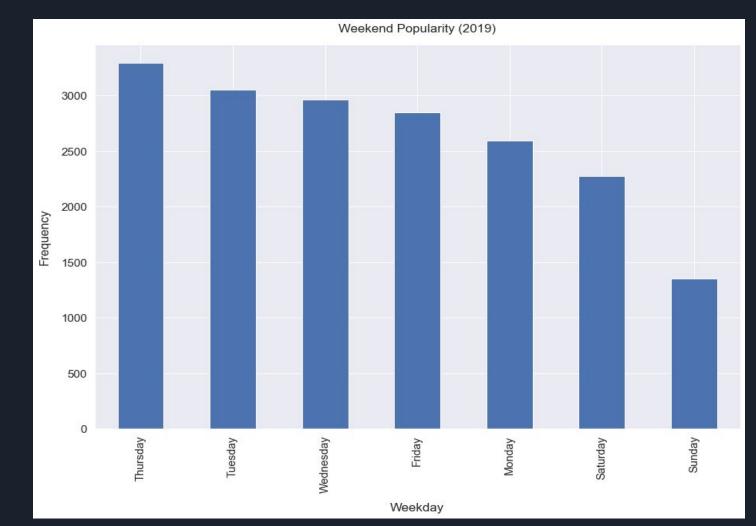




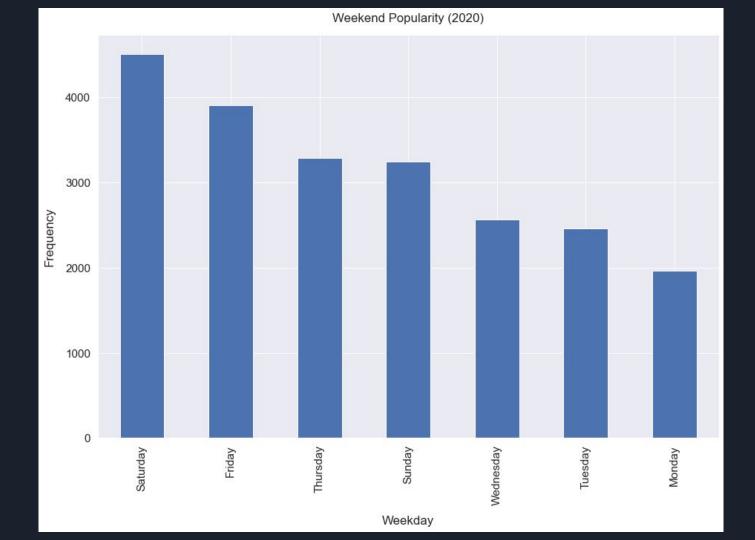
PATH	TIMESTAMPS	START LONG	START LAT	END LONG	END LAT	START STATUS	END STATUS	DATE CREATED
{\n "coordinates": [\n [\n -76.934163	[\n "2020-10- 03T03:32:14Z",\n "2020-10- 03T03	-76.934163	38.990656	-76.934285	38.990739	Off Campus	Off Campus	2020-10- 03 03:32:15
{\n "coordinates": [\n [\n -76.938180	[\n "2020-10- 03T03:07:46Z",\n "2020-10- 03T03	-76.938181	38.982087	-76.949165	38.992849	Off Campus	On Campus	2020-10- 03 03:07:39
{\n "coordinates": [\n [\n -76.937599	[\n "2020-10- 03T03:17:12Z",\n "2020-10- 03T03	-76.937600	38.979613	-76.933335	38.992676	Off Campus	Off Campus	2020-10- 03 03:17:05
{\n "coordinates": [\n [\n -76.943553	[\n "2020-10- 03T02:25:04Z",\n "2020-10- 03T02	-76.943553	38.982470	-76.943546	38.982476	On Campus	On Campus	2020-10- 03 02:24:58
{\n "coordinates": [\n [\n -76.938115	[\n "2020-10- 03T03:19:40Z",\n "2020-10- 03T03	-76.938116	38.982084	-76.943257	38.986101	Off Campus	On Campus	2020-10- 03 03:19:34
								· ·

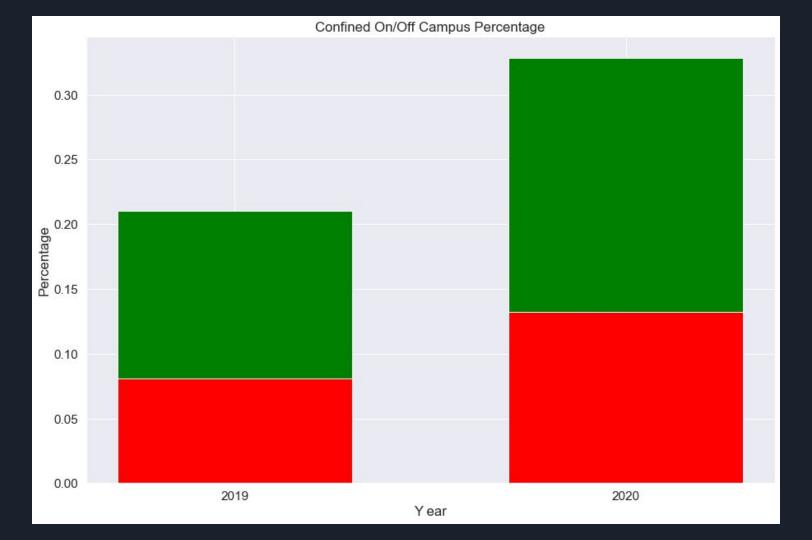
New Features

- START STATUS
- END STATUS
- DATE CREATED
- WEEKDAY
- HOUR
- YEAR



Findings





Question: How many rides originated off campus and terminated on campus?

Answer:

3301 rides started off campus but ended on campus in 2019.

4079 rides started off campus but ended on campus in 2020.

Conclusion