

Data Mining Lab

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Visualization Tool for Taxi-Pessenger Demand Prediction

Prof. Dr. Eirini Ntoutsi

Mentor: Tai Le Quy

Shaheer Asghar Awan, Robin Grau, MH Nikbakhtmalvajerdi, Mehdi Alijani Renani

Porto City Dataset

	A	B	C	D	E	F	G	H
1	TRIP_ID	CALL_TYPE	ORIGIN_CALL	STAND	TAXI_ID	TIMESTAMP	LONGITUDE	LATITUDE
2	1.37263730362E+018	B	0	7	20000596	1372637303	-8.639847	41.159826
3	1.37263736962E+018	B	0	53	20000381	1372637369	-8.61399	41.141313
4	1.37263761062E+018	B	0	13	20000497	1372637610	-8.585145	41.164857
5	1.37263848162E+018	B	0	28	20000403	1372638481	-8.584263	41.163156
6	1.37263856062E+018	B	0	15	20000308	1372638560	-8.58564	41.148567
7	1.37263921262E+018	B	0	12	20000497	1372639212	-8.630649	41.154984
8	1.37263963562E+018	B	0	52	20000178	1372639635	-8.613243	41.154444
9	1.37263996062E+018	B	0	38	20000309	1372639960	-8.60418	41.160969
10	1.37263997362E+018	B	0	23	20000686	1372639973	-8.61255	41.146128
11	1.37264033862E+018	B	0	13	20000423	1372640338	-8.628201	41.157459
12	1.37264035662E+018	B	0	22	20000657	1372640356	-8.689329	41.168115
13	1.37264057762E+018	B	0	18	20000632	1372640577	-8.619912	41.147991
14	1.37264114962E+018	B	0	57	20000235	1372641149	-8.610849	41.145741
15	1.37264119762E+018	B	0	13	20000653	1372641197	-8.628354	41.157459
16	1.37264128462E+018	B	0	53	20000648	1372641284	-8.614017	41.14143
17	1.37264145362E+018	B	0	51	20000010	1372641453	-8.621082	41.16105
18	1.37264145462E+018	B	0	60	20000195	1372641454	-8.6094	41.151213
19	1.37264160062E+018	B	0	15	20000612	1372641600	-8.585811	41.148666
20	1.37264169062E+018	B	0	23	20000372	1372641690	-8.612568	41.145948
21	1.37264172162E+018	B	0	23	20000686	1372641721	-8.612532	41.145939
22	1.37264174262E+018	B	0	22	20000657	1372641742	-8.689338	41.168124
23	1.37264174962E+018	B	0	34	20000571	1372641749	-8.615556	41.140692

Dataset Reshaped

	A	B	C	D
1	<u>Standname</u>	<u>Latitude</u>	<u>Longitude</u>	<u>passengersthisweek</u>
2	<u>Azevedo</u>	41.1515921	-8.568195397	514
3	<u>Rotunda</u>	41.15800388	-8.63037495	597
4	<u>Câmara</u>	41.14970219	-8.61107087	674
5	<u>Francos</u>	41.1710191	-8.638665581	319
6	<u>Campismo</u>	41.17547223	-8.627791451	2003
7	<u>Brasília</u>	41.15708913	-8.62846798	593
8	<u>Ribeira</u>	41.1412082	-8.614012261	314
9	<u>Maternidade</u>	41.15089146	-8.622799998	321
10	<u>Conde Ferreira</u>	41.16953022	-8.589347897	817
11	<u>Clérigos</u>	41.14601583	-8.612574719	117
12	<u>Carvalheiras</u>	41.15359293	-8.605426467	857
13	<u>Terço</u>	41.16159159	-8.60452833	1232
14	<u>Républica</u>	41.1549651	-8.613216988	203
15	<u>Vinte e Quatro de Agosto</u>	41.14931011	-8.600308525	348
16	<u>Lago</u>	41.16743181	-8.649526818	590
17	<u>Pinto de Azevedo</u>	41.17126237	-8.645050154	179
18	<u>Ouro</u>	41.14861103	-8.648886435	266
19	<u>Cordoaria</u>	41.14629987	-8.617638088	175
20	<u>Campanhã</u>	41.14862751	-8.585876603	455
21	<u>Infante</u>	41.14051688	-8.615952191	659
22	<u>Bolhão</u>	41.15071065	-8.606909773	872
23	<u>Corujeira</u>	41.15956064	-8.579775948	483

Tools

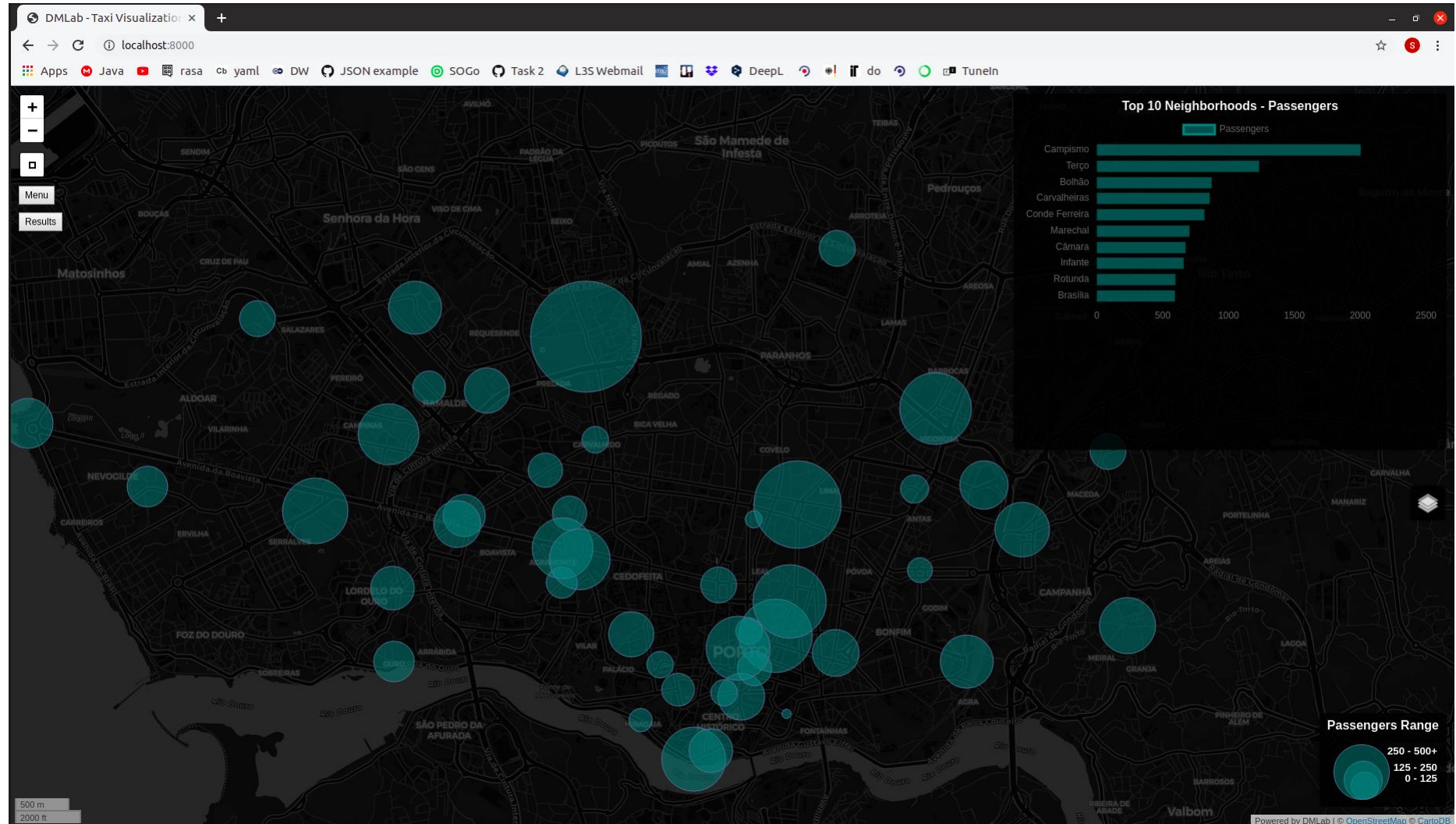
Front End

- D3.js
- Leaflet.js
- Chart.js

Backend

- Django (Python)
- Postgresql database

Results



Live Demonstration

Demo