Bijikon server guideline

VMO Holdings .Jsc

20-01-2021

Mục lục

1 WNI script

1.1 Diagolization result script

1.1.1 Requirements

Given a table of prediction in different timestamps and localtion, export an diagolized table for each lclid (location name)

The columns in the given table include:

- context
- lclid
- t_0
- t_1
- …
- t_36

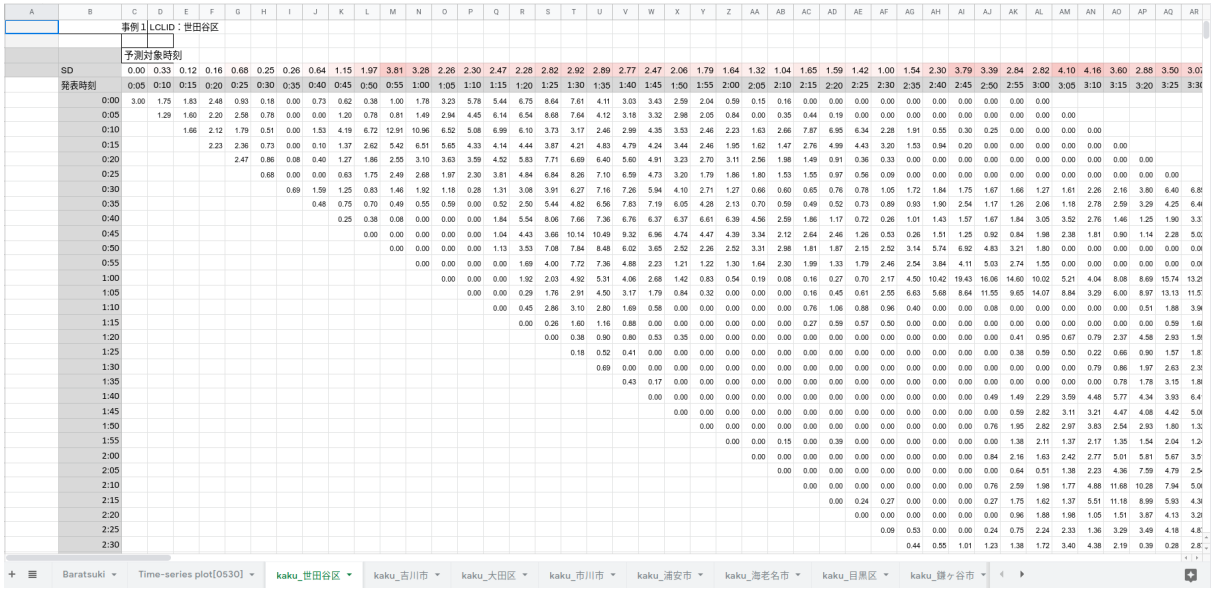
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	context	lclid	t_0	t_1	t_2	t_3	t_4	t_5	t_6	t_7	t_8	t_9	t_10	t_11	t_12	t_13
2	NONE	浦安市	20210313_0100	0.8416976	0.53675437	7.4792595	2.878951	2.4813795	4.852856	2.8326895	2.825183	2.2636557	2.8018532	0	1.7523365	0.76092803
3	NONE	市川市	20210313_0100	0.17039359	0	0	3.0846443	3.2580235	2.8057814	2.8995419	2.7939916	1.6734556	0.8089317	0.1199491	0.23601758	0
4	NONE	鎌ヶ谷市	20210313_0100	0.5306661	1.0029906	0.9374049	0	2.9784143	0.6724137	1.2594023	0.2043153	0.88425136	0.7927877	1.1912606	0.9426259	3.8039093
5	NONE	吉川市	20210313_0100	0	0	0	0	0	0	0	0	0	0	0	0	0
6	NONE	大田区	20210313_0100	3.4096198	5.5684195	3.456168	0.8586477	3.7581859	3.502962	3.502962	3.502962	3.4176857	1.7570533	1.1789975	0.4207549	0.81377363
7	NONE	世田谷区	20210313_0100	0	0	0	0	0	0.0147771835	0	0.26210797	0.49896812	0	1.1281085	0	0
8	NONE	目黒区	20210313_0100	0.02622199	0.025218844	0.025218844	0.17913544	0	0	0.2053914	0.025218844	0.025218844	0	0	0	0.007828474
9	NONE	海老名市	20210313_0100	0.5164372	0.5211414	0.5211414	0.5211414	0.5211414	0.5211414	0.5211414	0.5211414	0.5211414	0.3589965	0.7146013	7.785676	10.248099
10	NONE	浦安市	20210313_0105	1.1426318	1.8475721	1.2277472	1.9217184	0	1.8256123	6.5536394	8.675783	1.0716494	1.4031386	0.7680681	0.1514504	2.697336
11	NONE	市川市	20210313_0105	0.53592825	0.47093153	0.0524472	0	0	0	0.9095167	0.7925377	3.3291585	3.1892989	5.0072374	0.93567646	0
12	NONE	鎌ヶ谷市	20210313_0105	0.7154453	1.2792753	0.5948349	0.20497763	0.12538862	0.9528272	1.3242402	0.21546578	0.17980063	1.4948201	2.7359285	2.182465	0.93455493
13	NONE	吉川市	20210313_0105	0	0	0	0	0	0	0	0	0	0	0	0	0.47442734
14	NONE	大田区	20210313_0105	1.7780306	1.3480629	0.28648353	1.2878541	1.3058074	1.9810896	1.973481	2.2493162	2.3467374	2.3467374	1.9791487	1.9192443	2.5769649
15	NONE	世田谷区	20210313_0105	3.6009314	0	0	0	0	1.6388776	2.0943954	2.2019606	0	0	0	0	0.20337296
16	NONE	目黒区	20210313_0105	0	0	0	0	0	0	0.2807815	0	0	0	0	0	0
17	NONE	海老名市	20210313_0105	0.52149475	0.526199	0.526199	0.526199	0.526199	0.526199	0.526199	0.526199	0.526199	0.7964598	14.962672	9.566468	9.509917
18	NONE	浦安市	20210313_0110	2.7204843	6.309289	3.985684	0.9293511	0.9293511	4.5870123	0.70371723	0.6962106	0.6962106	0.6962106	0.66848946	0.5105978	0.029122353
19	NONE	市川市	20210313_0110	0.6822535	0	0	5.2587	0	0.3911605	0.07839024	1.7703631	0.015512109	0.015512109	0.015512109	0.015235305	0.015235305
20	NONE	鎌ヶ谷市	20210313_0110	0.27861607	1.4373021	2.8870316	5.899424	1.1432104	1.0359274	1.1538216	0.9587238	0.5256733	2.2800736	1.2987295	0.057228684	0.21388185
21	NONE	吉川市	20210313_0110	0	0	0	0	0	0	0	0	0	0.4104241	0	0	0
22	NONE	大田区	20210313_0110	0.5708853	0.6249007	2.171526	1.7955537	3.447507	3.447507	3.447507	3.447507	3.447507	3.447507	3.447507	3.4472308	3.4472308
23	NONE	世田谷区	20210313_0110	3.66821	0	0	0	0	2.7386932	1.6190407	1.6078012	0	0	0	0	0
24	NONE	目黒区	20210313_0110	0.003448248	0.0024451017	0.14466298	0	0.22130442	1.0358552	1.4078146	0.0024451017	0.0024451017	0.0024451017	0.0024451017	0.002169013	0.002169013
25	NONE	海老名市	20210313_0110	0.5307498	0.53545403	0.53545403	0.53545403	0.53545403	0.53545403	0.12836838	0.37330914	0.53545403	0.53545403	0.53545403	1.5632079	6.472422
26	NONE	浦安市	20210313_0115	1.3389595	0	1.6788411	2.026494	1.3925815	0.6032324	1.6941848	0.60153294	0.58333325	1.5411172	0.04414165	0.83697224	0.97138345
27	NONE	市川市	20210313_0115	0.36426938	0.04287207	0	0.23229432	1.1653247	0.16794169	0.669454	1.1653247	0.88794136	0.8770466	0	0	0
28	NONE	鎌ヶ谷市	20210313_0115	1.6893697	1.4861584	0.55176544	0.50384223	0.4203683	0.46151304	1.7012908	0.33194268	1.3682224	1.2731116	0.29008305	0.24419296	1.3381705
29	NONE	吉川市	20210313_0115	0	0	0	0	0	0	0	0	0	0.27560592	0	0.15234518	1.0903487
30	NONE	大田区	20210313_0115	2.3472018	0.7020707	1.4682348	0.31841183	3.1588287	2.3320935	2.3545356	1.8735502	1.9869472	2.3545356	2.3545356	2.3542595	2.3542595
31	NONE	世田谷区	20210313_0115	4.155401	0	0	0	0	1.8021315	1.8040745	1.6202956	0	0	0	0.76223624	0.05308163
32	NONE	目黒区	20210313_0115	0	0	0	0	0	0	0	0.15979743	0	0.09977496	0	0	0
33	NONE	海老名市	20210313_0115	0.5148039	0.5195081	0.5195081	0.5195081	0.5195081	0.5195081	0.5195081	0.5195081	0.5195081	1.1442214	6.465171	4.3794813	4.123646

Hình 1: Data from customer

Important columns:

1. lclid: place name
2. t_1 -> t_36: accuracy

For each lclid, rearrange data as follow:



Hình 2: Rearranged data

The script has been finished and can use immediately.

1.2 Transpose accuracy result script

1.3 Storm and map drawing script using matplotlib

2 Improve accuracy of WNI nowcasting using deep learning instead of traditional machine learning method

2.1 Applied deep learning on local optical flow

2.2 Applied deep learning on global optical flow

2.3 Applied deep learning on radar image prediction