

Dashtrack data concept

Data format

- frontend gets the data from backend
- the csv contains the following data: DATE, TIME, GPS, IMU, US and prepared dates
- prepared dates contains: analysed road texture, danger focus, overhaul focus, traffic light waiting time, (later: highly frequented roads and optimized routes, prognoses)

Structure of the CSV

DATE	TIME	SPEED	LAT	LON	ACCX	ACCY	ACCZ	GYRX	GYRY	GYRZ	DIS	DAN	IMU	WAIT	
6-12-21	13:24:46	10.560000	51.343891	12.374899	-61.523438	895.019531	-14.648438	1.106870	5.091603	4.480916			0	2	0
6-12-21	13:24:47	11.120000	51.343876	12.374784	-249.023438	998.046875	-78.125000	5.267176	3.694656	-3.129771	1450		0	1	0
6-12-21	13:24:48	11.590000	51.343914	12.374680	-191.406250	742.187500	110.839844	7.038168	-1.671756	1.992366	1460		0	1	0
6-12-21	13:24:49	11.930000	51.343903	12.374582	-254.882812	445.800781	-435.058594	6.679389	-8.938931	-3.458015	1490		0	2	0
6-12-21	13:24:50	12.350000	51.343906	12.374480	229.980469	1122.558594	-241.210938	-3.870229	-0.343511	-7.167939			0	2	0
6-12-21	13:24:51	12.670000	51.343914	12.374382	-305.664062	781.250000	-46.386719	3.503817	-4.007634	0.870229			0	3	0
6-12-21	13:24:52	12.940000	51.343922	12.374293	95.214844	1000.488281	167.968750	-4.946565	3.946565	-2.557252			0	2	0
6-12-21	13:24:53	13.070000	51.343922	12.374199	-93.750000	1091.796875	246.582031	-2.954198	2.007634	-0.496183			2	1	1
6-12-21	13:24:54	13.230000	51.343903	12.374100	204.589844	1224.121094	123.535156	4.389313	-0.557252	-1.419847			2	1	2
6-12-21	13:24:55	2.250000	51.343891	12.374006	-178.222656	886.718750	62.011719	-4.778626	-6.083970	4.618320			2	1	3
6-12-21	13:24:56	0.230000	51.343891	12.374006	7.812500	1080.078125	-71.777344	6.419847	-9.404580	-10.770992			2	1	20
6-12-21	13:24:56	0.230000	51.343891	12.374006	-266.601562	826.660156	-39.062500	45.389313	-8.122137	6.442748	1230		2	1	20
6-12-21	13:24:56	0.230000	51.343891	12.374006	50.781250	1014.648438	-13.671875	-2.961832	-1.435115	-1.488550	1100		2	1	20
6-12-21	13:24:56	1.230000	51.343918	12.373926	-16.601562	1136.718750	23.437500	-1.145038	2.106870	5.801527	1190		2	1	20

-the values are all comma separated

DATE,TIME,SPEED,LAT,LON,ACCX,ACCY,ACCZ,GYRX,GYRY,GYRZ,US,DAN,IMU,WAIT

DATE: 30-11-21

TIME: 15:24:46

LAT: 51.343998

LON: 12.376775

SPEED: 4.390000

ACCX/Y/Z: -272.949219

GYRX/Y/Z: -1.427481

US: average of near passings in mm

DAN: count of danger danger recognitions

IMU: road texture index between 0-5

0 - smooth asphalt

1 - asphalt

2 - paved way

3 - cobblestoneway

4 - fieldway

5 - potholes, curbs

WAIT: average waiting time in seconds