

Live 2025-10-15a

October 15, 2025

1 Timestamps and CSV-Files

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[1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

```
[3]: X = pd.read_csv('../Labs/Data/4Stu_2023_0118_0127 DataWithToolInfo.csv',
                    sep=';',
                    parse_dates=['timestamp_skv'],
                    dayfirst=True
                    )
```

```
[4]: X.describe()
```

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[4]:
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	timestamp_skv	timediff_skv	timediff_sensor	\
count	66703	66701.000000	66701.000000	
mean	2023-01-23 08:50:49.636001536	4.194825	4.194932	
min	2023-01-18 05:42:43.400000	0.000000	0.000000	
25%	2023-01-18 21:15:11.400000	1.000000	1.500000	
50%	2023-01-26 06:18:57.400000	2.000000	1.501000	
75%	2023-01-26 16:41:58.400000	2.000000	1.579000	
max	2023-01-27 17:09:30.400000	29740.000000	29739.913000	
std	NaN	173.450172	173.448476	

	SynchroDiff	ST_CH1_P_F0	ST_CH1_P_F1	ST_CH1_P_F2	ST_CH1_P_F3	\
count	66703.000000	66703.000000	66703.000000	6.670300e+04	66703.000000	
mean	0.376575	0.001839	0.000014	2.278736e-07	0.059784	
min	-1.495000	0.000683	0.000000	2.691119e-08	0.047685	
25%	0.016000	0.001313	0.000003	9.711246e-08	0.055610	
50%	0.380000	0.001824	0.000012	2.002658e-07	0.059784	
75%	0.753000	0.002269	0.000022	3.225647e-07	0.063793	
max	1.499000	0.004311	0.000064	1.240174e-06	0.078120	
std	0.526357	0.000597	0.000011	1.492868e-07	0.005909	

	ST_CH1_P_F4	ST_CH1_P_F5	...	5,36 SKV#4	5,92 SKV#4	\
count	66703.000000	66703.000000	...	66703.000000	66703.000000	
mean	0.046872	0.003595	...	5.337812	5.901364	

min	0.019543	0.000000	...	5.317000	5.881000
25%	0.029131	0.000119	...	5.336000	5.894000
50%	0.043598	0.001324	...	5.339000	5.900000
75%	0.060549	0.007996	...	5.341000	5.909000
max	0.150427	0.011690	...	5.377000	5.954000
std	0.020581	0.003780	...	0.005336	0.008304

	Sym Einstich SKV#4	Sym aussen SKV#4	Licht-Einstich frei SKV#4	\
count	66703.000000	66703.000000	66703.000000	
mean	0.021423	-0.018979	254.999945	
min	-0.029000	-0.116000	253.655000	
25%	0.019000	-0.020000	255.000000	
50%	0.022000	-0.019000	255.000000	
75%	0.024000	-0.017000	255.000000	
max	0.036000	0.009000	255.000000	
std	0.004126	0.002629	0.008157	

	Beacon INT0028 - BME280_RH	Beacon INT0028 - BMP280_PRESS	\
count	66703.000000	66703.000000	
mean	19.564815	948.726821	
min	17.296875	925.540000	
25%	18.634766	938.790000	
50%	19.229492	954.370000	
75%	20.621094	955.510000	
max	23.205078	968.820000	
std	1.342275	11.696184	

	Beacon INT0028 - BMP280_TEMP	pieces	tool io
count	66703.000000	66703.000000	66703.000000
mean	23.076179	24985.338501	0.095588
min	21.170000	8467.000000	0.000000
25%	22.790000	15031.000000	0.000000
50%	23.090000	20569.000000	0.000000
75%	23.520000	24897.000000	0.000000
max	23.970000	73690.000000	1.000000
std	0.554476	16945.246385	0.294027

[8 rows x 161 columns]

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