

Data Analysis Report

Data Summary

	Time (s)	Gyroscope X (deg/s)	Gyroscope Y (deg/s)	Gyroscope Z (deg/s)	Accelerometer X (g)	Accelerometer Y (g)	Accelerometer Z (g)	Magnetometer X (uT)	Magnetometer Y (uT)	Magnetometer Z (uT)	Barometer (hPa)
count	4056.000000	4056.000000	4056.000000	4056.000000	4056.000000	4056.000000	4056.000000	4056.000000	4056.000000	4056.000000	4056.000000
mean	15.840197	2.022419	8.329976	-10.116171	-0.050352	-0.889900	0.620544	3.629364	33.482394	-18.698353	992.154588
std	9.148499	141.728943	57.271560	56.866872	0.307296	0.408147	0.455129	15.881241	17.072931	24.566420	0.016288
min	0.000000	-680.912600	-320.193400	-378.294400	-4.602622	-3.468780	-2.444444	-32.846070	-12.711780	-68.877600	992.130100
25%	7.919856	-44.640878	-7.948252	-26.401820	-0.145963	-1.056671	0.536616	-4.577029	26.519310	-38.001240	992.139400
50%	15.839707	-3.720580	0.570753	-1.079523	-0.100245	-0.740034	0.686970	3.056921	33.398890	-18.993255	992.154800
75%	23.759536	45.632720	9.991941	6.579975	-0.001747	-0.713464	0.725833	10.417880	42.968420	-2.964365	992.165600
max	31.694545	481.535000	534.724100	224.845000	2.690332	1.096820	5.142231	56.618730	87.501890	43.391150	992.193700

Data Analysis

Data Analysis Report

Median:

Time (s)	15.839707
Gyroscope X (deg/s)	-3.720580
Gyroscope Y (deg/s)	0.570753
Gyroscope Z (deg/s)	-1.079523
Accelerometer X (g)	-0.100245
Accelerometer Y (g)	-0.740034
Accelerometer Z (g)	0.686970
Magnetometer X (uT)	3.056921
Magnetometer Y (uT)	33.398890
Magnetometer Z (uT)	-18.993255
Barometer (hPa)	992.154800

Mode:

Time (s)	0.000000
Gyroscope X (deg/s)	-4.778595
Gyroscope Y (deg/s)	-1.499839
Gyroscope Z (deg/s)	3.148520
Accelerometer X (g)	-0.129784
Accelerometer Y (g)	-1.473152
Accelerometer Z (g)	0.679157
Magnetometer X (uT)	11.148030
Magnetometer Y (uT)	33.239520
Magnetometer Z (uT)	-2.959000
Barometer (hPa)	992.136000

Data Analysis Report

Range:

Time (s)	31.694545
Gyroscope X (deg/s)	1162.447600
Gyroscope Y (deg/s)	854.917500
Gyroscope Z (deg/s)	603.139400
Accelerometer X (g)	7.292954
Accelerometer Y (g)	4.565600
Accelerometer Z (g)	7.586675
Magnetometer X (uT)	89.464800
Magnetometer Y (uT)	100.213670
Magnetometer Z (uT)	112.268750
Barometer (hPa)	0.063600

IQR:

Time (s)	15.839680
Gyroscope X (deg/s)	90.273597
Gyroscope Y (deg/s)	17.940193
Gyroscope Z (deg/s)	32.981795
Accelerometer X (g)	0.144216
Accelerometer Y (g)	0.343207
Accelerometer Z (g)	0.189217
Magnetometer X (uT)	14.994909
Magnetometer Y (uT)	16.449110
Magnetometer Z (uT)	35.036875
Barometer (hPa)	0.026200

Data Analysis Report

Skewness:

Time (s)	0.000030
Gyroscope X (deg/s)	-0.192461
Gyroscope Y (deg/s)	2.516637
Gyroscope Z (deg/s)	-1.076682
Accelerometer X (g)	0.453627
Accelerometer Y (g)	-1.162356
Accelerometer Z (g)	1.550437
Magnetometer X (uT)	0.510043
Magnetometer Y (uT)	0.048502
Magnetometer Z (uT)	0.166596
Barometer (hPa)	0.429234

Kurtosis:

Time (s)	-1.199959
Gyroscope X (deg/s)	1.120316
Gyroscope Y (deg/s)	13.450869
Gyroscope Z (deg/s)	6.693490
Accelerometer X (g)	24.665981
Accelerometer Y (g)	4.711586
Accelerometer Z (g)	19.386004
Magnetometer X (uT)	1.655218
Magnetometer Y (uT)	1.117335
Magnetometer Z (uT)	-0.602321
Barometer (hPa)	-0.743343

Data Analysis Report

Percentiles:

Time (s)	Gyroscope X (deg/s)	Gyroscope Y (deg/s)	Gyroscope Z (deg/s)	Accelerometer X (g)	Accelerometer Y (g)	Accelerometer Z (g)	Magnetometer X (uT)	Magnetometer Y (uT)	Magnetometer Z (uT)	Barometer (hPa)	
0.25	7.919856	-44.640878	-7.948252	-26.401820	-0.145963	-1.056671	0.536616	-4.577029	26.51931	-38.001240	992.1394
0.50	15.839707	-3.720580	0.570753	-1.079523	-0.100245	-0.740034	0.686970	3.056921	33.39889	-18.993255	992.1548
0.75	23.759536	45.632720	9.991941	6.579975	-0.001747	-0.713464	0.725833	10.417880	42.96842	-2.964365	992.1656

Quartiles:

Time (s)	Gyroscope X (deg/s)	Gyroscope Y (deg/s)	Gyroscope Z (deg/s)	Accelerometer X (g)	Accelerometer Y (g)	Accelerometer Z (g)	Magnetometer X (uT)	Magnetometer Y (uT)	Magnetometer Z (uT)	Barometer (hPa)	
0.25	7.919856	-44.640878	-7.948252	-26.401820	-0.145963	-1.056671	0.536616	-4.577029	26.51931	-38.001240	992.1394
0.50	15.839707	-3.720580	0.570753	-1.079523	-0.100245	-0.740034	0.686970	3.056921	33.39889	-18.993255	992.1548
0.75	23.759536	45.632720	9.991941	6.579975	-0.001747	-0.713464	0.725833	10.417880	42.96842	-2.964365	992.1656

Standard Deviation (SD):

Time (s) 9.148499

Gyroscope X (deg/s) 141.728943

Data Analysis Report

Gyroscope Y (deg/s)	57.271560
Gyroscope Z (deg/s)	56.866872
Accelerometer X (g)	0.307296
Accelerometer Y (g)	0.408147
Accelerometer Z (g)	0.455129
Magnetometer X (uT)	15.881241
Magnetometer Y (uT)	17.072931
Magnetometer Z (uT)	24.566420
Barometer (hPa)	0.016288

Variance:

Time (s)	83.695041
Gyroscope X (deg/s)	20087.093327
Gyroscope Y (deg/s)	3280.031581
Gyroscope Z (deg/s)	3233.841155
Accelerometer X (g)	0.094431
Accelerometer Y (g)	0.166584
Accelerometer Z (g)	0.207143
Magnetometer X (uT)	252.213828
Magnetometer Y (uT)	291.484980
Magnetometer Z (uT)	603.508983
Barometer (hPa)	0.000265