Pandas Profiling Report

Overview Variables Interactions Correlations Missing values Sample

Overview

Alerts 29

Reproduction

Variable types Dataset statistics Numeric 23 20 Number of variables 3901 Number of observations Categorical Missing cells 1 Missing cells (%) < 0.1% 0 **Duplicate rows** 0.0% **Duplicate rows (%) Total size in memory** 701.1 KiB 184.0 B Average record size in memory Variables Select Columns Unnamed: 0 Real number (\mathbb{R}) UNIFORM UNIQUE 3901 Minimum 0 **Distinct**

100.0% 3901 Distinct (%) Maximum Missing 0 Zeros 1 Missing (%) 0.0% < 0.1% Zeros (%) Infinite 0 0 Negative 0.0% Infinite (%) 0.0% Negative (%) Mean 1950.3935 Memory size 30.6 KiB More details Date Categorical HIGH CARDINALITY UNIFORM 2022-01-01 1 3900 **Distinct** 2029-11-11 ¹ 100.0% Distinct (%) 2029-10-14 1 2029-10-15 1 1 Missing 2029-10-16 1 Missing (%) < 0.1% Other values ... 3895 Memory size 30.6 KiB More details Temperature Real number (\mathbb{R}) 656 Distinct Minimum -12.1 Distinct (%) 16.8% Maximum 76.3 0 0 Missing Zeros Missing (%) 0.0% Zeros (%) 0.0% Infinite Negative 0 14 Infinite (%) 0.0% Negative (%) 0.4% 44.672417 Mean 30.6 KiB Memory size More details Average humidity (% Real number (\mathbb{R}) 86 9 Distinct Minimum 94 Distinct (%) 2.2% Maximum Missing 0 0 Zeros 0.0% Missing (%) 0.0% Zeros (%) Infinite 0 0 Negative Infinite (%) 0.0% Negative (%) 0.0% Mean 48.881312 Memory size 30.6 KiB More details Average dewpoint (°F Real number (\mathbb{R}) **Distinct** 637 Minimum -22.2 55.1 Distinct (%) 16.3% Maximum Missing 0 3 Zeros Missing (%) 0.0% Zeros (%) 0.1% Infinite Negative 0 211 Infinite (%) 0.0% Negative (%) 5.4% Memory size 30.6 KiB Mean 23.129813 More details Average barometer (in Real number (\mathbb{R}) 22 28.2 **Distinct** Minimum Distinct (%) 0.6% Maximum 31 Missing 0 0 Zeros Missing (%) Zeros (%) 0.0% 0.0% Infinite 0 Negative 0 Infinite (%) Negative (%) 0.0% 0.0% Mean 29.881441 30.6 KiB Memory size More details Average windspeed (mph Real number (R) HIGH CORRELATION ZEROS Distinct 206 Minimum 0 Distinct (%) 5.3% Maximum 26.4 56 Missing 0 Zeros Missing (%) Zeros (%) 0.0% 1.4% Negative Infinite 0 0 Infinite (%) 0.0% Negative (%) 0.0% 5.7574212 30.6 KiB Mean Memory size More details Average gustspeed (mph Real number (\mathbb{R}) HIGH CORRELATION ZEROS 332 0 **Distinct** Minimum 240.4 Distinct (%) 8.5% Maximum 55 0 Zeros Missing Missing (%) Zeros (%) 0.0% 1.4% Infinite 0 0 Negative 0.0% 0.0% Infinite (%) Negative (%) Mean 10.010177 Memory size 30.6 KiB More details Average direction (°deg Real number (\mathbb{R}) 328 0 Distinct Minimum Distinct (%) 8.4% Maximum 360 20 Missing 0 Zeros Missing (%) 0.0% Zeros (%) 0.5% Infinite 0 Negative 0 Infinite (%) 0.0% 0.0% Negative (%) Mean 216.07306 Memory size 30.6 KiB More details Rainfall for month (in Real number (\mathbb{R}) 234 0 Distinct Minimum 4.48 6.0% Maximum Distinct (%) 549 Missing 0 Zeros Missing (%) 0.0% Zeros (%) 14.1% Infinite Negative 0 Infinite (%) Negative (%) Mean 0.45117918 30.6 KiB Memory size More details Rainfall for year (in Real number (R) HIGH CORRELATION ZEROS 799 **Distinct** 0 Minimum Distinct (%) 16.41 20.5% Maximum Missing 0 Zeros 117 Missing (%) Zeros (%) 0.0% 3.0% Infinite Negative 0 0 Infinite (%) 0.0% Negative (%) 0.0% Memory size Mean 5.4874853 30.6 KiB More details Maximum rain per minute Categorical **Distinct** 1 < 0.1% Distinct (%) Missing 0 0.0% Missing (%) Memory size 30.6 KiB More details Maximum temperature (°F Real number (R) 680 Distinct Minimum -6.1 Distinct (%) 17.4% Maximum 92.7 1 Missing 0 Zeros Missing (%) 0.0% < 0.1% Zeros (%) Negative Infinite 0 2 Infinite (%) 0.0% Negative (%) 0.1% Mean 57.56465 Memory size 30.6 KiB Minimum temperature (°F Real number (\mathbb{R}) **Distinct** 577 Minimum -27.7 14.8% 65.7 Distinct (%) Maximum Missing 0 Zeros 4 Missing (%) Zeros (%) 0.1% 0.0% 120 Infinite 0 Negative Infinite (%) 0.0% Negative (%) 3.1% Memory size 30.6 KiB Mean 31.228377 Maximum humidity (% Real number (\mathbb{R}) 92 **Distinct** Minimum 1 100 2.4% Distinct (%) Maximum Missing 0 0 Zeros Missing (%) 0.0% Zeros (%) 0.0% 0 Negative Infinite 0 Infinite (%) 0.0% 0.0% Negative (%) 73.67393 30.6 KiB Mean Memory size Minimum humidity (% Real number (\mathbb{R}) 89 0 **Distinct** Minimum Distinct (%) 90 2.3% Maximum Missing 0 Zeros Zeros (%) 0.1% Missing (%) 0.0% 0 Negative 0 Infinite Infinite (%) Negative (%) 0.0% 0.0% 26.017944 Memory size 30.6 KiB Mean Maximum pressure Real number (\mathbb{R}) **Distinct** 1047 Minimum 29.338 Distinct (%) 31.204 26.8% Maximum Missing 0 0 Zeros Missing (%) Zeros (%) 0.0% 0.0% Negative Infinite 0 0 Infinite (%) 0.0% 0.0% Negative (%) 30.045456 Memory size 30.6 KiB Mean Minimum pressure Real number (\mathbb{R}) 1062 13.266 **Distinct** Minimum 30.855 Distinct (%) 27.2% Maximum Missing 0 0 Zeros Missing (%) Zeros (%) 0.0% 0.0% Infinite 0 Negative 0 Infinite (%) 0.0% 0.0% Negative (%) 29.701622 30.6 KiB Mean Memory size Maximum windspeed (mph Real number (\mathbb{R}) HIGH CORRELATION ZEROS

More details More details More details More details More details More details Distinct (%) 1.6% Maximum 181.7 Missing 0 54 Zeros Missing (%) 0.0% Zeros (%) 1.4% Infinite 0 Negative 0 Infinite (%) 0.0% 0.0% Negative (%) Mean 19.83817 Memory size 30.6 KiB More details Maximum gust speed (mph Real number (R) HIGH CORRELATION ZEROS 104 Minimum 0 **Distinct** 255.3 Distinct (%) 2.7% Maximum Missing 0 Zeros 50 Missing (%) 0.0% Zeros (%) 1.3% Infinite 0 0 Negative Infinite (%) 0.0% 0.0% Negative (%) Memory size 33.973597 30.6 KiB Mean More details Maximum heat index (°F Real number (\mathbb{R}) 626 -6.1 Distinct Minimum Distinct (%) 16.0% Maximum 88.4 Missing 0 1 Zeros Missing (%) Zeros (%) < 0.1% 0.0% Infinite 0 Negative 2 Negative (%) 0.1% Infinite (%) 0.0% 58.089439 Mean Memory size 30.6 KiB More details Month Real number (\mathbb{R}) Distinct 12 Minimum 1 12 Distinct (%) 0.3% Maximum Missing 0 0 Zeros Missing (%) 0.0% Zeros (%) 0.0% Infinite 0 0 Negative Negative (%) 0.0% Infinite (%) 0.0% Mean 6.3968213 Memory size 30.6 KiB 15,5 More details diff_pressure Categorical 0.185999999... 19 **Distinct** 1028 0.219999999... 26.4% Distinct (%) 0.198000000... 19 19 0 0.307999999... Missing 0.269999999... 17 Missing (%) 0.0% Other values .. 3808 Memory size 30.6 KiB More details Interactions Month Unnamed: 0 Unnamed: 0 Temperature Average humidity (% Temperature Average dewpoint (°F Average humidity (% Average barometer (in Average dewpoint (°F Average barometer (in Average windspeed (mph Average gustspeed (mph Average windspeed (mph Average direction (°deg Average gustspeed (mph Rainfall for month (in Average direction (°deg Rainfall for month (in Rainfall for year (in Rainfall for year (in Maximum temperature (°F Minimum temperature (°F Maximum temperature (°F Maximum humidity (% Minimum temperature (°F Minimum humidity (% Maximum humidity (% Maximum pressure Minimum humidity (% Minimum pressure Maximum pressure Minimum pressure Maximum windspeed (mpl Maximum gust speed (mpl Maximum windspeed (mpr Maximum heat index (°F Maximum gust speed (mpl Month Maximum heat index (°F 1000 2500 2000 3000 3500 Unnamed: 0 Correlations Auto Heatmap 1.00 Unnamed: 0 Temperature Average humidity (% 0.75 Average dewpoint (°F Average barometer (in 0.50 Average windspeed (mph Average gustspeed (mph Average direction (°deg - 0.25 Rainfall for month (in Rainfall for year (in - 0.00 Maximum temperature (°F

Maximum heat index (°F Month -1.00 Unnamed: 0

Temperature
age humidity (%
ge dewpoint (°F
le barometer (in
vindspeed (mph
yustspeed (mph
un humidity (%
yimum pressure
yindspeed (mph
ust speed (mph
ust speed (mph
n heat index (°F Missing values Count Matrix 8.0 0.6 0.4 0.2 A simple visualization of nullity by column. Sample

- -0.25

-0.50

-0.75

36.8

18.0

0 0

1 1

First rows Last rows

Unnamed: 0 Date

2022-01-01 37.8

2022-01-02 43.2

35.0

32.0

Minimum temperature (°F

Maximum windspeed (mph Maximum gust speed (mph

Maximum humidity (%

Minimum humidity (% Maximum pressure

Minimum pressure

12.7

14.7

Temperature Average humidity (% Average dewpoint (°F Average barometer (in Average windspeed (mph Average gustsp

29.7

29.5

26.4

12.8