YData Profiling Report

Overview

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| Overview | Alerts 37 | Reproduction |

Dataset statistics

Number of variables	33
Number of observations	569
Missing cells	569
Missing cells (%)	3.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	146.8 KiB
Average record size in memory	264.2 B

Variable types

Numeric	31
Categorical	1
Unsupported	1

Variables

Select Columns

id

Real number (ℝ)

Unique

Distinct	569	Minimum	8670
Distinct (%)	**100.0%**	Maximum	9.1132
Missing	0	Zeros	0
		Zeros (%)	0.0%
Missing (%)	0.0%	Negative	0
Infinite	0	Negative (%)	0.0%
Infinite (%)	0.0%	Memory size	4.6 KiB
Mean	30371831		
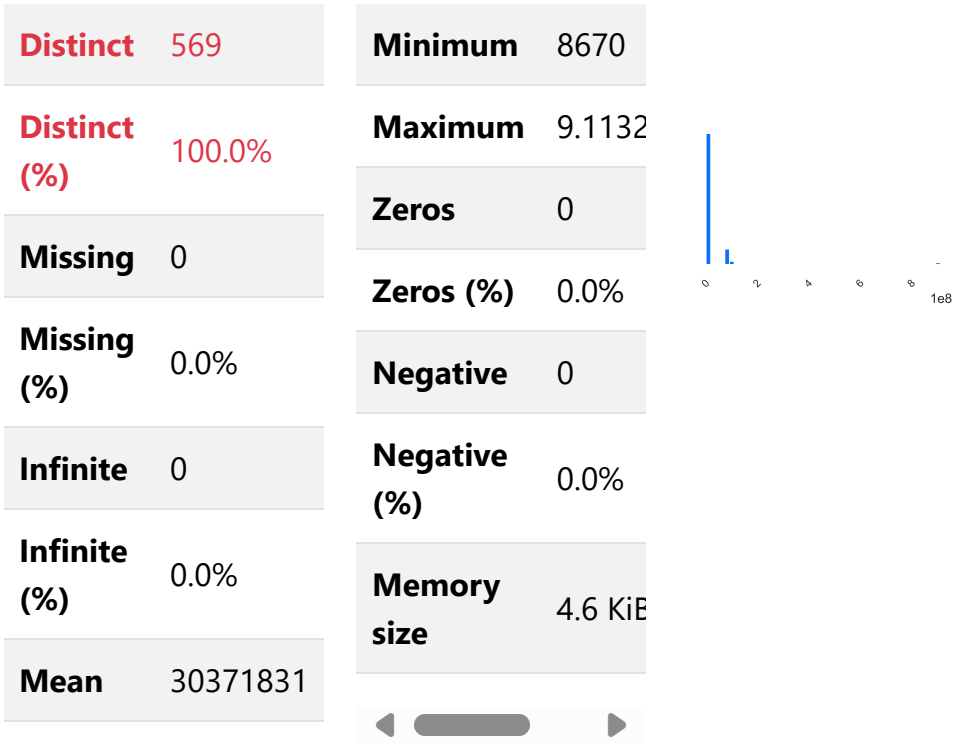
More details

diagnosis

Categorical

High correlation

Distinct	2	B	357
Distinct (%)	0.4%	M	212
Missing	0		
Missing (%)	0.0%		
Memory size	4.6 KiB		

More details

radius_mean

Real number (ℝ)

High correlation

Distinct	456
Distinct (%)	80.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	14.127292

Minimum	6.981
Maximum	28.11
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
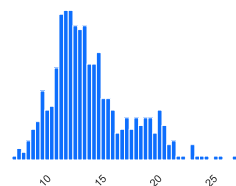
More details

texture_mean

Real number (ℝ)

High correlation

Distinct	479
Distinct (%)	84.2%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Minimum	9.71
Maximum	39.28
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
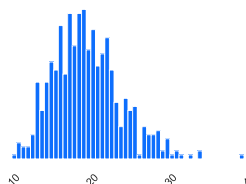
Mean	19.289649	Memory size	4.6 KiB

More details

perimeter_mean

Real number (ℝ)

High correlation

Distinct	522
Distinct (%)	91.7%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	91.969033

Minimum	43.79
Maximum	188.5
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
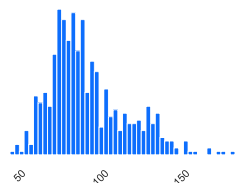
More details

area_mean

Real number (ℝ)

High correlation

Distinct	539
Distinct (%)	94.7%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	654.8891

Minimum	143.5
Maximum	2501
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
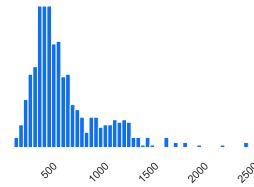
More details

smoothness_mean

Real number (ℝ)

High correlation

Distinct	474
Distinct (%)	83.3%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.09636028

Minimum	0.0526
Maximum	0.1634
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
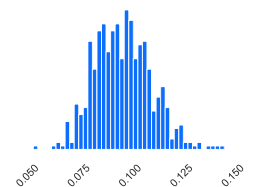
More details

compactness_mean

Real number (ℝ)

High correlation

Distinct	537	**Minimum**	0.0193	
Distinct (%)	94.4%	**Maximum**	0.3454	
Missing	0	**Zeros**	0	
Missing (%)	0.0%	**Zeros (%)**	0.0%	
Infinite	0	**Negative**	0	
Infinite (%)	0.0%	**Negative (%)**	0.0%	
Mean	0.10434098	**Memory size**	4.6 KiB	

More details

concavity_mean

Real number (ℝ)

High correlation   **Zeros**

Distinct	537
Distinct (%)	94.4%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.08879931

Minimum	0
Maximum	0.4268
Zeros	13
Zeros (%)	2.3%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
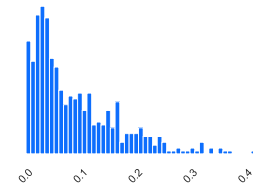
More details

concave points_mean
Real number (ℝ)

High correlation   **Zeros**

Distinct	542
Distinct (%)	95.3%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Minimum	0
Maximum	0.2012
Zeros	13
Zeros (%)	2.3%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
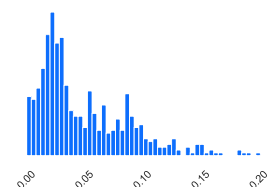
Mean	0.04891914

More details

symmetry_mean
Real number (ℝ)

High correlation

Distinct	432		Minimum	0.106
Distinct (%)	75.9%		Maximum	0.304
Missing	0		Zeros	0
Missing (%)	0.0%		Zeros (%)	0.0%
Infinite	0		Negative	0
Infinite (%)	0.0%		Negative (%)	0.0%
Mean	0.18116186		Memory size	4.6 KiB
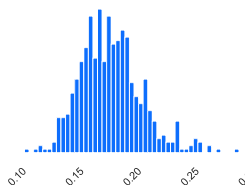
More details

fractal_dimension_mean
Real number (ℝ)

High correlation

Distinct	499	**Minimum**	0.0499	
Distinct (%)	87.7%	**Maximum**	0.0974	
Missing	0	**Zeros**	0	
Missing (%)	0.0%	**Zeros (%)**	0.0%	
Infinite	0	**Negative**	0	
Infinite (%)	0.0%	**Negative (%)**	0.0%	
Mean	0.06279761	**Memory size**	4.6 KiB	
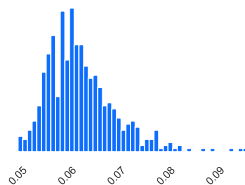
More details

radius_se

Real number (ℝ)

High correlation

Distinct	540	**Minimum**	0.1115	
Distinct (%)	94.9%	**Maximum**	2.873	
Missing	0	**Zeros**	0	
Missing (%)	0.0%	**Zeros (%)**	0.0%	
Infinite	0	**Negative**	0	
Infinite (%)	0.0%	**Negative (%)**	0.0%	
		Memory size	4.6 KiB	
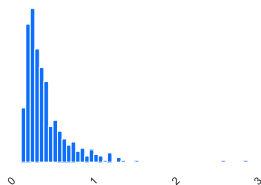
Mean	0.40517206

More details

texture_se
Real number (ℝ)

Distinct	519
Distinct (%)	91.2%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	1.2168534

Minimum	0.3602
Maximum	4.885
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
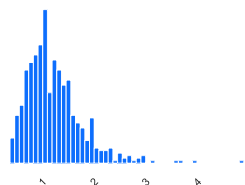
More details

perimeter_se
Real number (ℝ)

High correlation

Distinct	533	**Minimum**	0.757	
Distinct (%)	93.7%	**Maximum**	21.98	
Missing	0	**Zeros**	0	
		Zeros (%)	0.0%	
Missing (%)	0.0%	**Negative**	0	
Infinite	0	**Negative (%)**	0.0%	
Infinite (%)	0.0%	**Memory size**	4.6 KiB	
Mean	2.8660592			
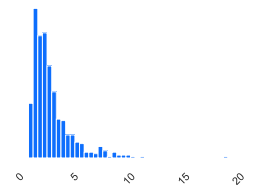
More details

area_se

Real number (ℝ)

High correlation

Distinct	528	**Minimum**	6.802	
Distinct (%)	92.8%	**Maximum**	542.2	
Missing	0	**Zeros**	0	
		Zeros (%)	0.0%	
Missing (%)	0.0%	**Negative**	0	
Infinite	0	**Negative (%)**	0.0%	
Infinite (%)	0.0%	**Memory size**	4.6 KiB	
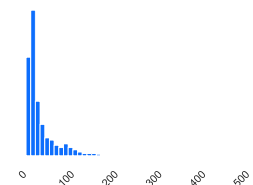
Mean	40.337079

More details

smoothness_se

Real number (ℝ)

Distinct	547
Distinct (%)	96.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.00704097

Minimum	0.0017
Maximum	0.0311
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
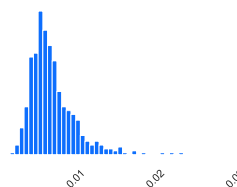
More details

compactness_se

Real number (ℝ)

High correlation

Distinct	541	**Minimum**	0.0022	
Distinct (%)	95.1%	**Maximum**	0.1354	
Missing	0	**Zeros**	0	
Missing (%)	0.0%	**Zeros (%)**	0.0%	
Infinite	0	**Negative**	0	
Infinite (%)	0.0%	**Negative (%)**	0.0%	
Mean	0.02547813	**Memory size**	4.6 KiB	
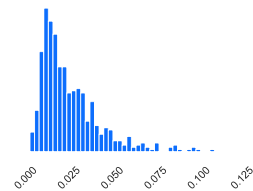
More details

concavity_se

Real number (ℝ)

High correlation   **Zeros**

Distinct	533	**Minimum**	0	
Distinct (%)	93.7%	**Maximum**	0.396	
Missing	0	**Zeros**	13	
Missing (%)	0.0%	**Zeros (%)**	2.3%	
Infinite	0	**Negative**	0	
Infinite (%)	0.0%	**Negative (%)**	0.0%	
		Memory size	4.6 KiB	
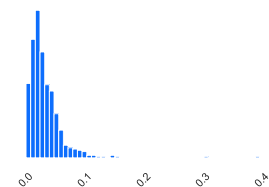
Mean	0.03189371

More details

concave points_se

Real number (ℝ)

High correlation   **Zeros**

Distinct	507
Distinct (%)	89.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.01179613

Minimum	0
Maximum	0.0527
Zeros	**13**
Zeros (%)	**2.3%**
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
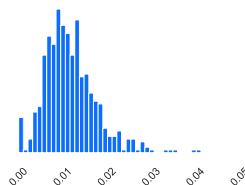
More details

symmetry_se

Real number (ℝ)

Distinct	498
Distinct (%)	87.5%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.02054229

Minimum	0.0078
Maximum	0.0789
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
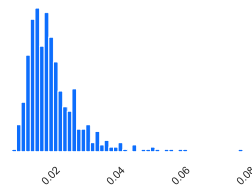
More details

fractal_dimension_se

Real number (ℝ)

High correlation

Distinct	545
Distinct (%)	95.8%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Minimum	0.0008
Maximum	0.0298
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
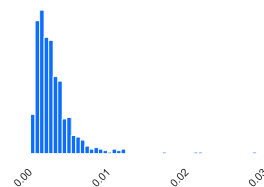
Mean	0.0037949(

More details

radius_worst

Real number (ℝ)

High correlation

Distinct	457	**Minimum**	7.93	
Distinct (%)	80.3%	**Maximum**	36.04	
		Zeros	0	
Missing	0	**Zeros (%)**	0.0%	
Missing (%)	0.0%	**Negative**	0	
Infinite	0	**Negative (%)**	0.0%	
Infinite (%)	0.0%	**Memory size**	4.6 KiE	
Mean	16.26919			
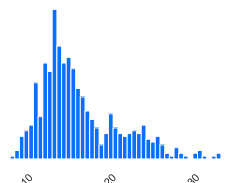
More details

texture_worst

Real number (ℝ)

High correlation

Distinct	511	**Minimum**	12.02	
Distinct (%)	89.8%	**Maximum**	49.54	
Missing	0	**Zeros**	0	
Missing (%)	0.0%	**Zeros (%)**	0.0%	
Infinite	0	**Negative**	0	
Infinite (%)	0.0%	**Negative (%)**	0.0%	
Mean	25.677223	**Memory size**	4.6 KiB	
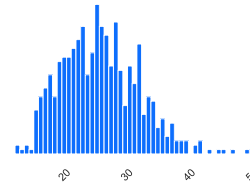
More details

perimeter_worst

Real number (ℝ)

High correlation

Distinct	514	**Minimum**	50.41	
Distinct (%)	90.3%	**Maximum**	251.2	
Missing	0	**Zeros**	0	
Missing (%)	0.0%	**Zeros (%)**	0.0%	
Infinite	0	**Negative**	0	
Infinite (%)	0.0%	**Negative (%)**	0.0%	
		Memory size	4.6 KiB	
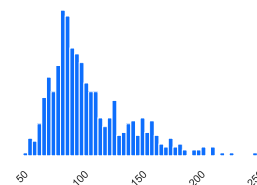
Mean	107.26121

More details

area_worst

Real number (ℝ)

High correlation

Distinct	544	Minimum	185.2
Distinct (%)	95.6%	Maximum	4254
Missing	0	Zeros	0
Missing (%)	0.0%	Zeros (%)	0.0%
Infinite	0	Negative	0
Infinite (%)	0.0%	Negative (%)	0.0%
Mean	880.58313	Memory size	4.6 KiB
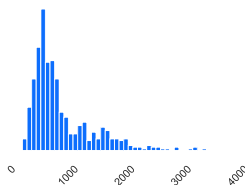
More details

smoothness_worst

Real number (ℝ)

High correlation

Distinct	411	**Minimum**	0.0711	
Distinct (%)	72.2%	**Maximum**	0.2226	
Missing	0	**Zeros**	0	
Missing (%)	0.0%	**Zeros (%)**	0.0%	
Infinite	0	**Negative**	0	
Infinite (%)	0.0%	**Negative (%)**	0.0%	
Mean	0.13236859	**Memory size**	4.6 KiB	
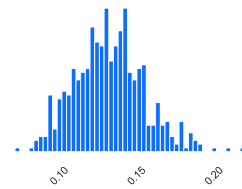
More details

compactness_worst

Real number (ℝ)

High correlation

Distinct	529	**Minimum**	0.0272	
Distinct (%)	93.0%	**Maximum**	1.058	
Missing	0	**Zeros**	0	
Missing (%)	0.0%	**Zeros (%)**	0.0%	
Infinite	0	**Negative**	0	
Infinite (%)	0.0%	**Negative (%)**	0.0%	
		Memory size	4.6 KiB	
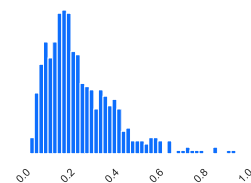
| **Mean** | 0.25426504 |

More details

concavity_worst
Real number (ℝ)

High correlation   **Zeros**

Distinct	539
Distinct (%)	94.7%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.27218848

Minimum	0
Maximum	1.252
Zeros	13
Zeros (%)	2.3%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
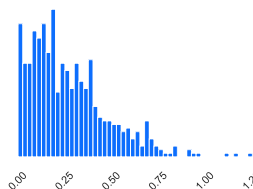
More details

concave points_worst
Real number (ℝ)

High correlation   **Zeros**

Distinct	492
Distinct (%)	86.5%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.11460622

Minimum	0
Maximum	0.291
Zeros	13
Zeros (%)	2.3%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
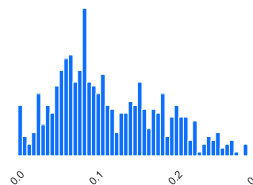
More details

symmetry_worst

Real number (ℝ)

High correlation

Distinct	500
Distinct (%)	87.9%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%

Minimum	0.1565
Maximum	0.6638
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	4.6 KiB
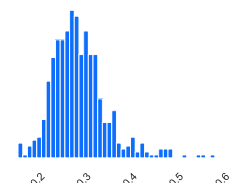
Mean	0.29007557

More details

fractal_dimension_worst

Real number (ℝ)

High correlation

Distinct	535		Minimum	0.0550
Distinct (%)	94.0%		Maximum	0.2075
Missing	0		Zeros	0
Missing (%)	0.0%		Zeros (%)	0.0%
Infinite	0		Negative	0
Infinite (%)	0.0%		Negative (%)	0.0%
Mean	0.08394581		Memory size	4.6 KiB
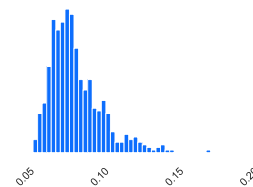
More details

Unnamed: 32

Unsupported

Missing	Rejected	Unsupported
Missing		569
Missing (%)		100.0%

Memory size	4.6 KiB

Interactions

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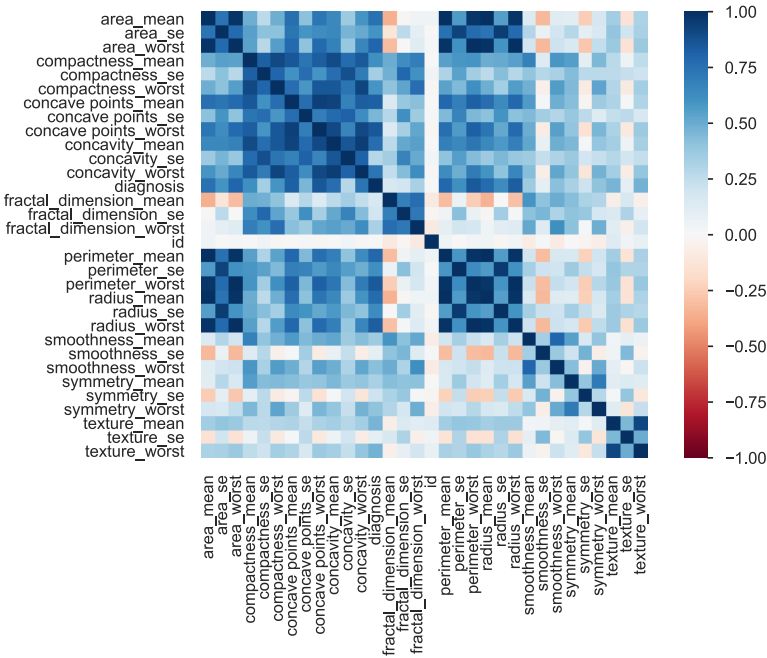area_wor
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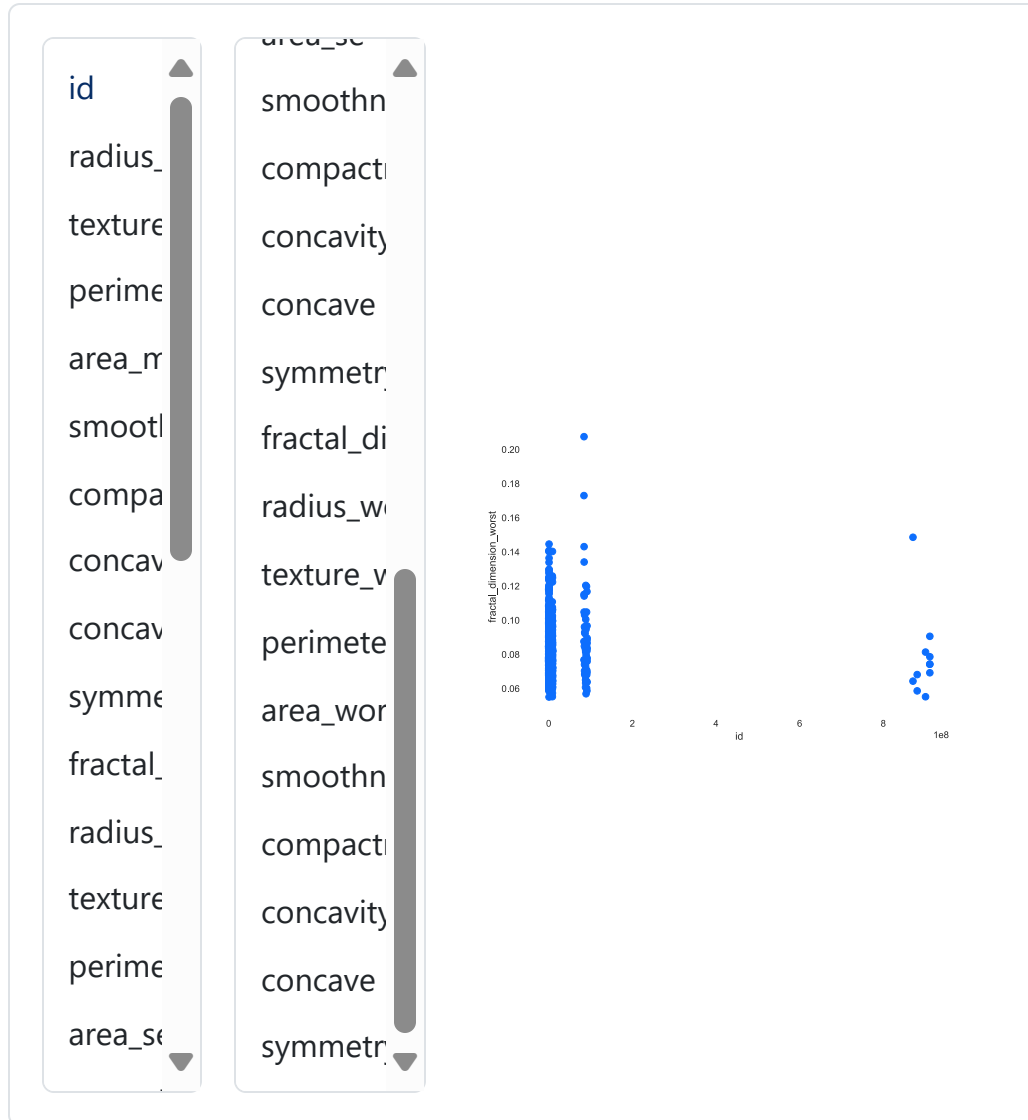
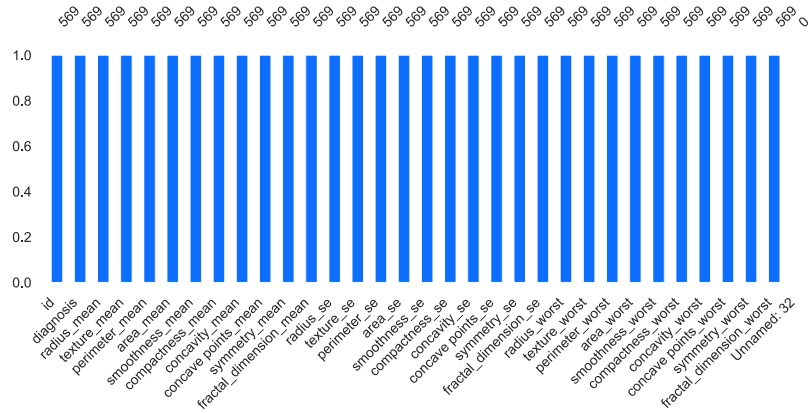# Correlations

Auto

Heatmap   Table

Missing values

Count   Matrix

A simple visualization of nullity by column.

Sample

First rows	Last rows

dimension_mean	radius_se	texture_se	perimeter_se	area_se
	1.0950	0.9053	8.589	153.40
	0.5435	0.7339	3.398	74.08
	0.7456	0.7869	4.585	94.03
	0.4956	1.1560	3.445	27.23
	0.7572	0.7813	5.438	94.44
	0.3345	0.8902	2.217	27.19

dimension_mean	radius_se	texture_se	perimeter_se	area_se
	0.4467	0.7732	3.180	53.91
	0.5835	1.3770	3.856	50.96
	0.3063	1.0020	2.406	24.32
	0.2976	1.5990	2.039	23.94

Report generated by YData.