

3.1 Dataset

Overview



The image shows the Kaggle dataset page for the 'Breast Cancer Wisconsin (Diagnostic) Data Set'. The page title is 'Breast Cancer Wisconsin (Diagnostic) Data Set' with the subtitle 'Predict whether the cancer is benign or malignant'. It is a UCI Machine Learning dataset, updated 3 years ago (Version 2). The page includes a 'Data' tab, 'Kernels (1983)', 'Discussion (23)', 'Activity', and 'Metadata'. A 'Download (122 KB)' button and a 'New Notebook' button are visible. The background features a microscopic image of breast tissue cells.



The image shows a data preview of the 'Breast Cancer Wisconsin (Diagnostic) Data Set'. The table has 22 columns: 'id', 'diagnosis', 'radius_mean', 'texture_mean', 'perimeter_mean', and 'area'. The 'diagnosis' column indicates whether the tumor is 'B' (benign) or 'M' (malignant). The other columns represent various features computed from a digitized image of a fine needle aspirate (FNA) of a breast mass. The table shows the first 22 rows of data.

id	diagnosis	radius_mean	texture_mean	perimeter_mean	area
1	B	17.99	10.38	103.6	
2	B	20.57	17.77	132.9	
3	B	19.69	21.75	158	
4	B	21.42	20.38	77.58	
5	B	20.29	14.34	135.1	
6	B	12.45	15.7	82.57	
7	B	18.25	16.98	119.6	
8	B	13.71	20.83	96.3	
9	B	15	21.02	87.5	
10	B	12.45	24.64	80.97	
11	B	16.82	23.24	162.7	
12	B	15.78	17.89	103.6	
13	B	19.17	24.8	133.4	
14	B	15.85	23.46	103.7	
15	B	13.72	23.41	93.6	
16	B	14.54	27.54	96.73	
17	B	14.62	26.13	64.74	
18	B	15.15	26.68	106.1	
19	B	19.81	23.15	158	
20	B	13.54	14.36	87.46	
21	B	13.88	16.71	85.63	
22	B	9.84	12.44	69.34	

3.2 Dataset

Attribute Information and Measurement

#	Attributes	Type	Domain
1	Sample code number	Nominal	ID number
2	Clump Thickness	Ordinal	1-10
3	Uniformity of Cell Size	Ordinal	1-10
4	Uniformity of Cell Shape	Ordinal	1-10
5	Marginal Adhesion	Ordinal	1-10
6	Single Epithelial Cell Size	Ordinal	1-10
7	Bare Nuclei	Ordinal	1-10
8	Bland Chromatin	Ordinal	1-10
9	Normal Nucleoli	Ordinal	1-10
10	Mitoses	Ordinal	1-10
11	Class	Nominal	2 = benign, 4 = malignant