CANCER DIAGNOSIS

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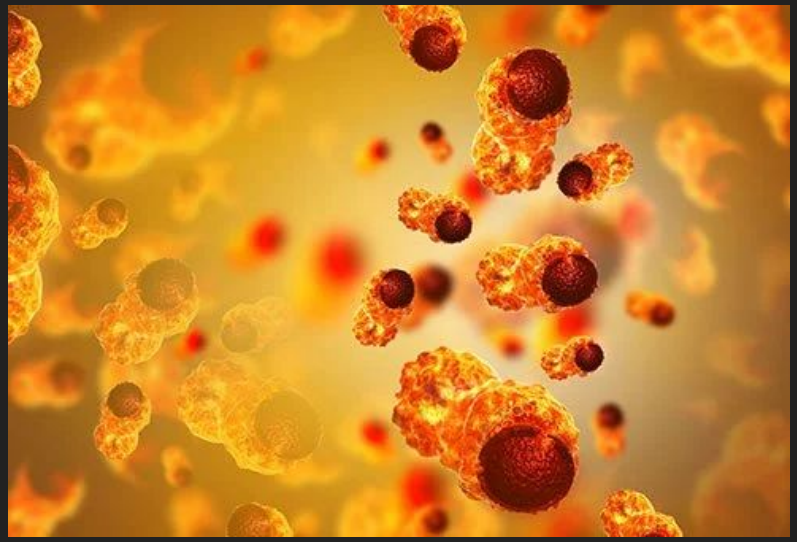
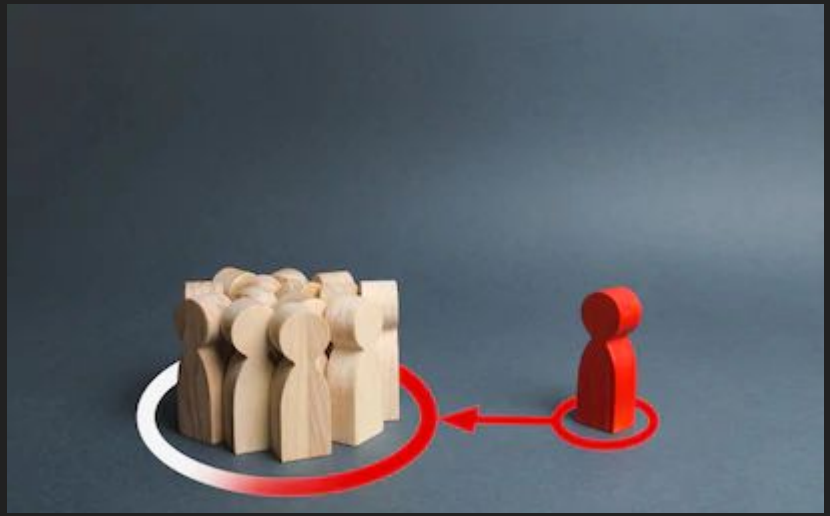


Cancer is a major public health problem worldwide
Every year thousands of people die of cancer

Main cause of that is the inability to diagnose cancer in its early stages

Every year a lot of scientists try to solve this problem and save human’s lives



We want to exert our efforts to combat this disease

We will classify human cell to ‘malignant’ and ‘benign’ by next criteria:

1) Radius
2) Texture
3) Perimeter
4) Area
5) Smoothness
6) Compactness
7) Concavity
8) Concave points
9) Symmetry
10) Fractal dimension

According to the received data we will try to predict the risk of cancer disease

Dataset

	id	diagnosis	radius_mean	texture_mean	perimeter_mean	area_mean	smoothness_mean	compactness_mean	concavity_mean
2	842302	M	17.99	10.38	122.8	1001	0.1184	0.2776	0.3001
3	842517	M	20.57	17.77	132.9	1326	0.08474	0.07864	0.0869
4	84300903	M	19.69	21.25	130	1203	0.1096	0.1599	0.1974
5	84348301	M	11.42	20.38	77.58	386.1	0.1425	0.2839	0.2414
6	84358402	M	20.29	14.34	135.1	1297	0.1003	0.1328	0.198
7	843786	M	12.45	15.7	82.57	477.1	0.1278	0.17	0.1578
8	844359	M	18.25	19.98	119.6	1040	0.09463	0.109	0.1127
9	84458202	M	13.71	20.83	90.2	577.9	0.1189	0.1645	0.09366
10	844981	M	13	21.82	87.5	519.8	0.1273	0.1932	0.1859
11	84501001	M	12.46	24.04	83.97	475.9	0.1186	0.2396	0.2273
12	845636	M	16.02	23.24	102.7	797.8	0.08206	0.06669	0.03299
13	84610002	M	15.78	17.89	103.6	781	0.0971	0.1292	0.09954
14	846226	M	19.17	24.8	132.4	1123	0.0974	0.2458	0.2065
15	846381	M	15.85	23.95	103.7	782.7	0.08401	0.1002	0.09938