Cancer Detection Using Machine Learning

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Set Year Start Cliff Jay 8/01/2021

GOAL OF PROJECT

We have executed features of breast cancer patients cells and normal persons cells. As a machine learning engineer/data scientists has to create an ML model to classify malignant and Benign Tumour. To complete this ML project we are using the supervised machine learning classifiers.

Import Essential Libraries

In [1]:
```
# numpy library for
import numpy as np # for data manipulation of arrays
import numpy as np # for numeric calculation
import pandas as pd # for data manipulation
import matplotlib as mpl # for data visualization
```

DATA LOAD

In [2]:
```
# Read breast cancer data
cancer_dataset = pd.read_csv('breast_cancer
cancer_dataset = load_breast_cancer()
```

In [3]:
```
cancer_dataset
```

Out[3]:
```
{'data': array([[1.799e+01, 1.038e+01, 1.226e+02, ..., 2.654e-01, 4.601e-01,
        1.189e-01],
       [2.057e+01, 1.777e+01, 1.329e+02, ..., 1.860e-01, 2.750e-01,
        8.902e-02],
       [1.969e+01, 2.125e+01, 1.300e+02, ..., 2.430e-01, 3.613e-01,
        8.758e-02],
       [1.660e+01, 2.808e+01, 1.083e+02, ..., 1.418e-01, 2.218e-01,
        7.820e-02],
       [2.060e+01, 2.933e+01, 1.401e+02, ..., 2.650e-01, 4.087e-01,
        1.372e-01],
       [7.760e+00, 2.454e+01, 4.792e+01, ..., 0.000e+00, 2.871e-01,
        7.039e-02]],
      dtype=float64),
 'target': array([0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 0,
        0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 0, 0, 1, 1, 1, 1, 0, 1, 0, 0, 1,
        1, 1, 1, 0, 1, 0, 0, 1, 1, 1, 1
```