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import sklearn
In [5]:
       from sklearn.datasets import load_breast_cancer
       # loading the dataset
       data = load_breast_cancer()
       # Organize our data
       label_names = data['target_names']
       labels = data['target']
       feature_names = data['feature_names']
       features = data['data']
       # looking at the data
       print(label_names)
       ['malignant' 'benign']
       print(labels)
In [9]:
       100000000101111100100111101001111000
       1 1 1 1 1 1 1 1 0 1 1 1 1 1 0 0 1 0 1 1 1 0 0 1 1 0 0 1 1 1 1 1 0 1 1 0 0 0 1 0
       1 1 1 1 1 1 0 1 0 1 1 1 0 1 1 1 1 1 1 0 0 1 0 1 0 1 1 1 1 1 1 0 0 1 0 1 0 1
       1 1 1 1 1 1 1 0 0 0 0 0 0 1]
       print(feature_names)
In [10]:
       ['mean radius' 'mean texture' 'mean perimeter' 'mean area'
        'mean smoothness' 'mean compactness' 'mean concavity'
        'mean concave points' 'mean symmetry' 'mean fractal dimension'
       'radius error' 'texture error' 'perimeter error' 'area error'
        'smoothness error' 'compactness error' 'concavity error'
        'concave points error' 'symmetry error' 'fractal dimension error'
        'worst radius' 'worst texture' 'worst perimeter' 'worst area'
       'worst smoothness' 'worst compactness' 'worst concavity'
        'worst concave points' 'worst symmetry' 'worst fractal dimension']
       print(features)
In [11]:
       [[1.799e+01 1.038e+01 1.228e+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 1.240e-01]
       [7.760e+00 2.454e+01 4.792e+01 ... 0.000e+00 2.871e-01 7.039e-02]]
       from sklearn.model_selection import train_test_split
In [12]:
       # splitting the data
       train, test, train_labels, test_labels = train_test_split(features, labels, test_size = 0.33, random_state = 42)
       from sklearn.naive bayes import GaussianNB
In [13]:
       gnb = GaussianNB()
       model = gnb.fit(train, train_labels)
       predictions = gnb.predict(test)
In [14]:
       print(predictions)
       101101111111110011111001110011100110010
       1100011100110100111010110011001100101100
       0 1 1]
       from sklearn.metrics import accuracy_score
In [15]:
       print(accuracy_score(test_labels, predictions))
      0.9414893617021277
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