

# Importing Packages

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn.neighbors import KNeighborsClassifier
from sklearn import metrics
from sklearn.preprocessing import LabelEncoder
```

## Data Preprocessing

```
df=pd.read_csv(r"C:\Users\Arigala.Adarsh\Downloads\Cancer_Data.csv")
```

```
df.head()
```

	id	diagnosis	radius_mean	texture_mean	perimeter_mean
area_mean \					
0	842302	M	17.99	10.38	122.80
1001.0					
1	842517	M	20.57	17.77	132.90
1326.0					
2	84300903	M	19.69	21.25	130.00
1203.0					
3	84348301	M	11.42	20.38	77.58
386.1					
4	84358402	M	20.29	14.34	135.10
1297.0					

	smoothness_mean	compactness_mean	concavity_mean	concave
points_mean \				
0	0.11840	0.27760	0.3001	
0.14710				
1	0.08474	0.07864	0.0869	
0.07017				
2	0.10960	0.15990	0.1974	
0.12790				
3	0.14250	0.28390	0.2414	
0.10520				
4	0.10030	0.13280	0.1980	
0.10430				

...	texture_worst	perimeter_worst	area_worst	
smoothness_worst \				
0	...	17.33	184.60	2019.0
				0.1622

1	...	23.41	158.80	1956.0	0.1238
2	...	25.53	152.50	1709.0	0.1444
3	...	26.50	98.87	567.7	0.2098
4	...	16.67	152.20	1575.0	0.1374

	compactness_worst	concavity_worst	concave points_worst
symmetry_worst \			
0	0.6656	0.7119	0.2654
0.4601			
1	0.1866	0.2416	0.1860
0.2750			
2	0.4245	0.4504	0.2430
0.3613			
3	0.8663	0.6869	0.2575
0.6638			
4	0.2050	0.4000	0.1625
0.2364			

	fractal_dimension_worst	Unnamed: 32
0	0.11890	NaN
1	0.08902	NaN
2	0.08758	NaN
3	0.17300	NaN
4	0.07678	NaN

[5 rows x 33 columns]

df.shape

(569, 33)

df.columns

```
Index(['id', 'diagnosis', 'radius_mean', 'texture_mean',
      'perimeter_mean',
      'area_mean', 'smoothness_mean', 'compactness_mean',
      'concavity_mean',
      'concave points_mean', 'symmetry_mean',
      'fractal_dimension_mean',
      'radius_se', 'texture_se', 'perimeter_se', 'area_se',
      'smoothness_se',
      'compactness_se', 'concavity_se', 'concave points_se',
      'symmetry_se',
      'fractal_dimension_se', 'radius_worst', 'texture_worst',
      'perimeter_worst', 'area_worst', 'smoothness_worst',
      'compactness_worst', 'concavity_worst', 'concave points_worst',
```

```
'symmetry_worst', 'fractal_dimension_worst', 'Unnamed: 32'],  
dtype='object')
```

## Exploratory Data Analysis.

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 569 entries, 0 to 568
```

```
Data columns (total 33 columns):
```

#	Column	Non-Null Count	Dtype
0	id	569 non-null	int64
1	diagnosis	569 non-null	object
2	radius_mean	569 non-null	float64
3	texture_mean	569 non-null	float64
4	perimeter_mean	569 non-null	float64
5	area_mean	569 non-null	float64
6	smoothness_mean	569 non-null	float64
7	compactness_mean	569 non-null	float64
8	concavity_mean	569 non-null	float64
9	concave points_mean	569 non-null	float64
10	symmetry_mean	569 non-null	float64
11	fractal_dimension_mean	569 non-null	float64
12	radius_se	569 non-null	float64
13	texture_se	569 non-null	float64
14	perimeter_se	569 non-null	float64
15	area_se	569 non-null	float64
16	smoothness_se	569 non-null	float64
17	compactness_se	569 non-null	float64
18	concavity_se	569 non-null	float64
19	concave points_se	569 non-null	float64
20	symmetry_se	569 non-null	float64
21	fractal_dimension_se	569 non-null	float64
22	radius_worst	569 non-null	float64
23	texture_worst	569 non-null	float64
24	perimeter_worst	569 non-null	float64
25	area_worst	569 non-null	float64
26	smoothness_worst	569 non-null	float64
27	compactness_worst	569 non-null	float64
28	concavity_worst	569 non-null	float64
29	concave points_worst	569 non-null	float64
30	symmetry_worst	569 non-null	float64
31	fractal_dimension_worst	569 non-null	float64
32	Unnamed: 32	0 non-null	float64

```
dtypes: float64(31), int64(1), object(1)
```

```
memory usage: 146.8+ KB
```

```
df.describe().T
```

	count	mean	std
min \			
id	569.0	3.037183e+07	1.250206e+08
8670.000000			
radius_mean	569.0	1.412729e+01	3.524049e+00
6.981000			
texture_mean	569.0	1.928965e+01	4.301036e+00
9.710000			
perimeter_mean	569.0	9.196903e+01	2.429898e+01
43.790000			
area_mean	569.0	6.548891e+02	3.519141e+02
143.500000			
smoothness_mean	569.0	9.636028e-02	1.406413e-02
0.052630			
compactness_mean	569.0	1.043410e-01	5.281276e-02
0.019380			
concavity_mean	569.0	8.879932e-02	7.971981e-02
0.000000			
concave points_mean	569.0	4.891915e-02	3.880284e-02
0.000000			
symmetry_mean	569.0	1.811619e-01	2.741428e-02
0.106000			
fractal_dimension_mean	569.0	6.279761e-02	7.060363e-03
0.049960			
radius_se	569.0	4.051721e-01	2.773127e-01
0.111500			
texture_se	569.0	1.216853e+00	5.516484e-01
0.360200			
perimeter_se	569.0	2.866059e+00	2.021855e+00
0.757000			
area_se	569.0	4.033708e+01	4.549101e+01
6.802000			
smoothness_se	569.0	7.040979e-03	3.002518e-03
0.001713			
compactness_se	569.0	2.547814e-02	1.790818e-02
0.002252			
concavity_se	569.0	3.189372e-02	3.018606e-02
0.000000			
concave points_se	569.0	1.179614e-02	6.170285e-03
0.000000			
symmetry_se	569.0	2.054230e-02	8.266372e-03
0.007882			
fractal_dimension_se	569.0	3.794904e-03	2.646071e-03
0.000895			
radius_worst	569.0	1.626919e+01	4.833242e+00
7.930000			
texture_worst	569.0	2.567722e+01	6.146258e+00
12.020000			

perimeter_worst	569.0	1.072612e+02	3.360254e+01
50.410000			
area_worst	569.0	8.805831e+02	5.693570e+02
185.200000			
smoothness_worst	569.0	1.323686e-01	2.283243e-02
0.071170			
compactness_worst	569.0	2.542650e-01	1.573365e-01
0.027290			
concavity_worst	569.0	2.721885e-01	2.086243e-01
0.000000			
concave points_worst	569.0	1.146062e-01	6.573234e-02
0.000000			
symmetry_worst	569.0	2.900756e-01	6.186747e-02
0.156500			
fractal_dimension_worst	569.0	8.394582e-02	1.806127e-02
0.055040			
Unnamed: 32	0.0	NaN	NaN
NaN			

	25%	50%	75%	\
id	869218.000000	906024.000000	8.813129e+06	
radius_mean	11.700000	13.370000	1.578000e+01	
texture_mean	16.170000	18.840000	2.180000e+01	
perimeter_mean	75.170000	86.240000	1.041000e+02	
area_mean	420.300000	551.100000	7.827000e+02	
smoothness_mean	0.086370	0.095870	1.053000e-01	
compactness_mean	0.064920	0.092630	1.304000e-01	
concavity_mean	0.029560	0.061540	1.307000e-01	
concave points_mean	0.020310	0.033500	7.400000e-02	
symmetry_mean	0.161900	0.179200	1.957000e-01	
fractal_dimension_mean	0.057700	0.061540	6.612000e-02	
radius_se	0.232400	0.324200	4.789000e-01	
texture_se	0.833900	1.108000	1.474000e+00	
perimeter_se	1.606000	2.287000	3.357000e+00	
area_se	17.850000	24.530000	4.519000e+01	
smoothness_se	0.005169	0.006380	8.146000e-03	
compactness_se	0.013080	0.020450	3.245000e-02	
concavity_se	0.015090	0.025890	4.205000e-02	
concave points_se	0.007638	0.010930	1.471000e-02	
symmetry_se	0.015160	0.018730	2.348000e-02	
fractal_dimension_se	0.002248	0.003187	4.558000e-03	
radius_worst	13.010000	14.970000	1.879000e+01	
texture_worst	21.080000	25.410000	2.972000e+01	
perimeter_worst	84.110000	97.660000	1.254000e+02	
area_worst	515.300000	686.500000	1.084000e+03	
smoothness_worst	0.116600	0.131300	1.460000e-01	
compactness_worst	0.147200	0.211900	3.391000e-01	
concavity_worst	0.114500	0.226700	3.829000e-01	
concave points_worst	0.064930	0.099930	1.614000e-01	

symmetry_worst	0.250400	0.282200	3.179000e-01
fractal_dimension_worst	0.071460	0.080040	9.208000e-02
Unnamed: 32	NaN	NaN	NaN

	max
id	9.113205e+08
radius_mean	2.811000e+01
texture_mean	3.928000e+01
perimeter_mean	1.885000e+02
area_mean	2.501000e+03
smoothness_mean	1.634000e-01
compactness_mean	3.454000e-01
concavity_mean	4.268000e-01
concave points_mean	2.012000e-01
symmetry_mean	3.040000e-01
fractal_dimension_mean	9.744000e-02
radius_se	2.873000e+00
texture_se	4.885000e+00
perimeter_se	2.198000e+01
area_se	5.422000e+02
smoothness_se	3.113000e-02
compactness_se	1.354000e-01
concavity_se	3.960000e-01
concave points_se	5.279000e-02
symmetry_se	7.895000e-02
fractal_dimension_se	2.984000e-02
radius_worst	3.604000e+01
texture_worst	4.954000e+01
perimeter_worst	2.512000e+02
area_worst	4.254000e+03
smoothness_worst	2.226000e-01
compactness_worst	1.058000e+00
concavity_worst	1.252000e+00
concave points_worst	2.910000e-01
symmetry_worst	6.638000e-01
fractal_dimension_worst	2.075000e-01
Unnamed: 32	NaN

```
df.isnull().sum()
```

id	0
diagnosis	0
radius_mean	0
texture_mean	0
perimeter_mean	0
area_mean	0
smoothness_mean	0
compactness_mean	0
concavity_mean	0
concave points_mean	0

symmetry_mean	0
fractal_dimension_mean	0
radius_se	0
texture_se	0
perimeter_se	0
area_se	0
smoothness_se	0
compactness_se	0
concavity_se	0
concave points_se	0
symmetry_se	0
fractal_dimension_se	0
radius_worst	0
texture_worst	0
perimeter_worst	0
area_worst	0
smoothness_worst	0
compactness_worst	0
concavity_worst	0
concave points_worst	0
symmetry_worst	0
fractal_dimension_worst	0
Unnamed: 32	569

dtype: int64

```
df.drop("Unnamed: 32",axis=1,inplace=True)
```

```
df.drop("id",axis=1,inplace=True)
```

```
df.isnull().sum()
```

diagnosis	0
radius_mean	0
texture_mean	0
perimeter_mean	0
area_mean	0
smoothness_mean	0
compactness_mean	0
concavity_mean	0
concave points_mean	0
symmetry_mean	0
fractal_dimension_mean	0
radius_se	0
texture_se	0
perimeter_se	0
area_se	0
smoothness_se	0
compactness_se	0
concavity_se	0
concave points_se	0

```
symmetry_se          0
fractal_dimension_se 0
radius_worst         0
texture_worst        0
perimeter_worst      0
area_worst           0
smoothness_worst     0
compactness_worst    0
concavity_worst      0
concave points_worst 0
symmetry_worst       0
fractal_dimension_worst 0
dtype: int64
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 569 entries, 0 to 568
```

```
Data columns (total 31 columns):
```

#	Column	Non-Null Count	Dtype
0	diagnosis	569 non-null	object
1	radius_mean	569 non-null	float64
2	texture_mean	569 non-null	float64
3	perimeter_mean	569 non-null	float64
4	area_mean	569 non-null	float64
5	smoothness_mean	569 non-null	float64
6	compactness_mean	569 non-null	float64
7	concavity_mean	569 non-null	float64
8	concave points_mean	569 non-null	float64
9	symmetry_mean	569 non-null	float64
10	fractal_dimension_mean	569 non-null	float64
11	radius_se	569 non-null	float64
12	texture_se	569 non-null	float64
13	perimeter_se	569 non-null	float64
14	area_se	569 non-null	float64
15	smoothness_se	569 non-null	float64
16	compactness_se	569 non-null	float64
17	concavity_se	569 non-null	float64
18	concave points_se	569 non-null	float64
19	symmetry_se	569 non-null	float64
20	fractal_dimension_se	569 non-null	float64
21	radius_worst	569 non-null	float64
22	texture_worst	569 non-null	float64
23	perimeter_worst	569 non-null	float64
24	area_worst	569 non-null	float64
25	smoothness_worst	569 non-null	float64
26	compactness_worst	569 non-null	float64
27	concavity_worst	569 non-null	float64
28	concave points_worst	569 non-null	float64



```
29  symmetry_worst          569 non-null    float64
30  fractal_dimension_worst  569 non-null    float64
dtypes: float64(30), object(1)
memory usage: 137.9+ KB
```

We will analyze the distribution of benign (B) and malignant (M) cancers in the data on the graph with two unique features

"M" = Malignant Cancer

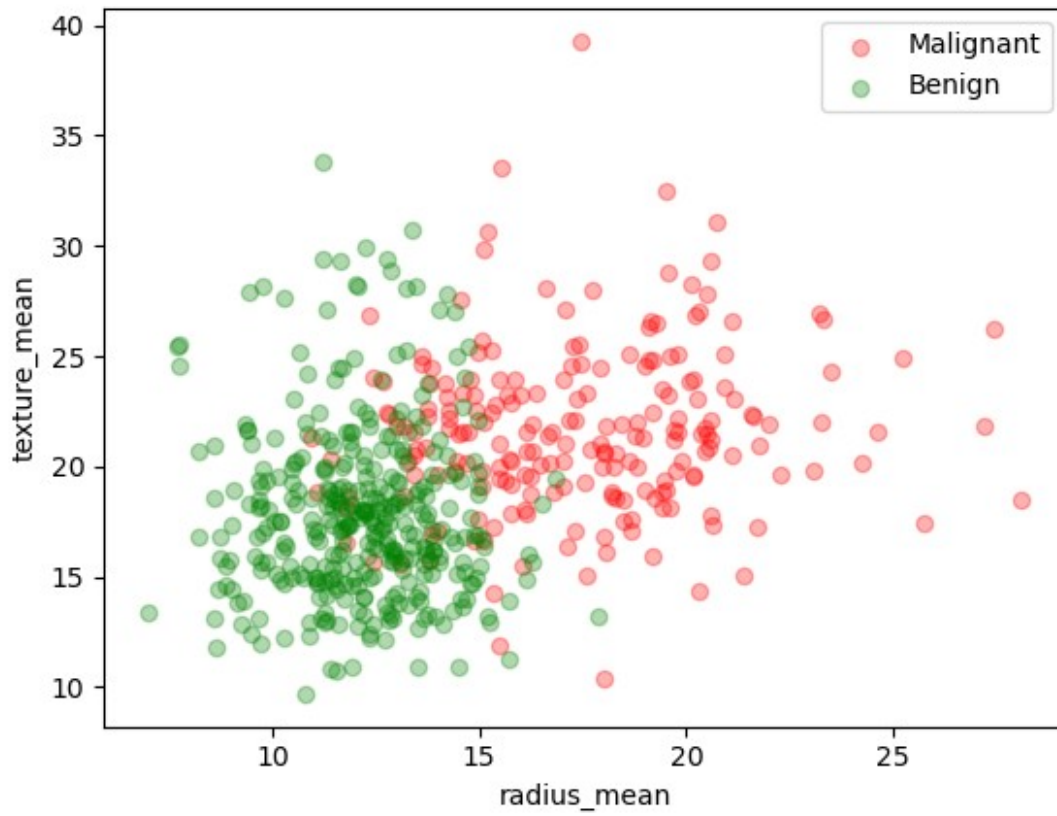
"B" = Benign Cance

```
M = df[df.diagnosis == "M"] #Diagnosis transfers all values of M to M data
B = df[df.diagnosis == "B"] #Diagnosis transfers all values of B to B data

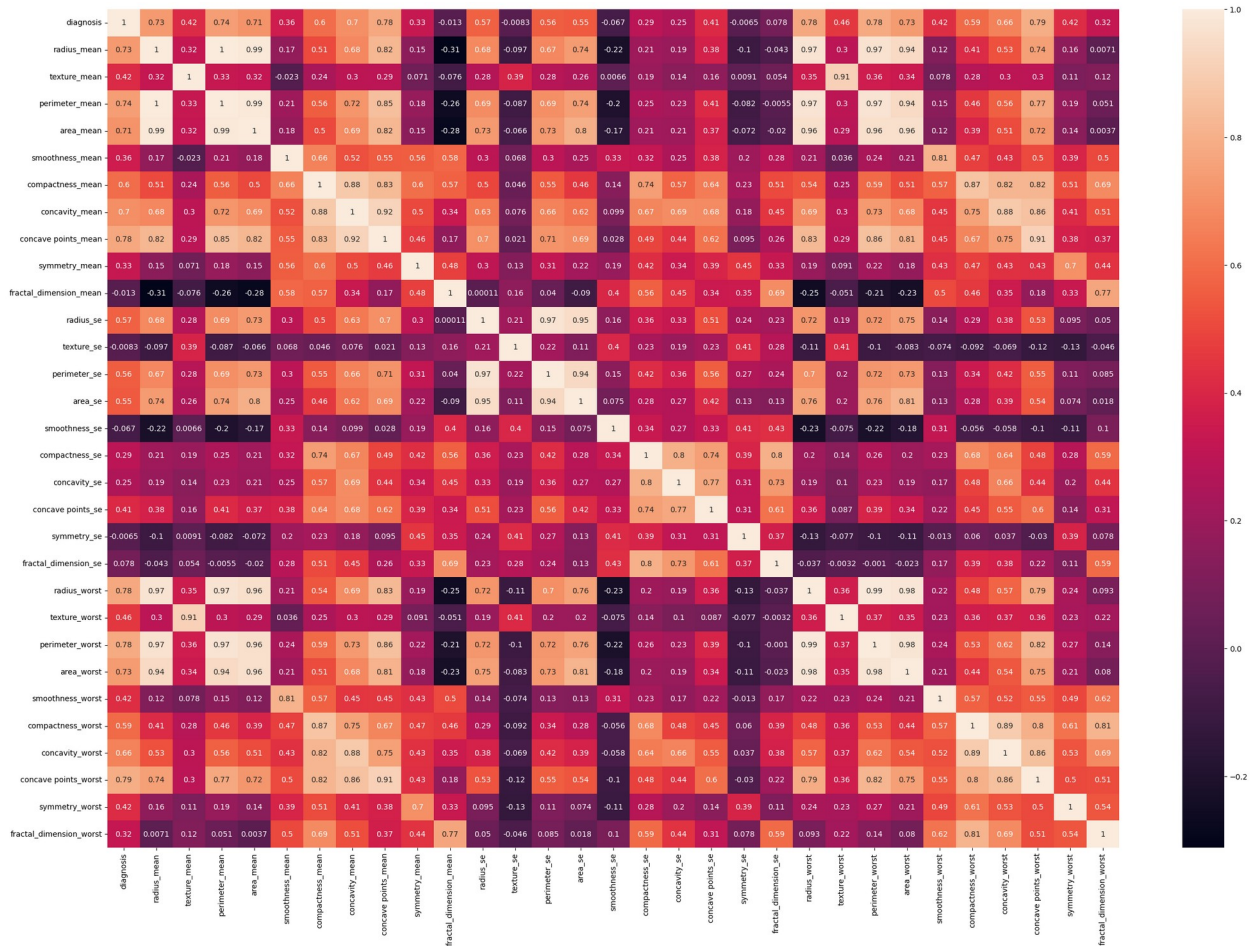
plt.scatter(M.radius_mean,M.texture_mean, color = "red", label =
"Malignant", alpha = 0.3)
plt.scatter(B.radius_mean,B.texture_mean, color = "green", label =
"Benign", alpha = 0.3)

plt.xlabel("radius_mean")
plt.ylabel("texture_mean")

plt.legend()
plt.show()
```



```
plt.figure(figsize=(30,20))  
sns.heatmap(df.corr(),annot=True)  
plt.show()
```



```
label=LabelEncoder()
df['diagnosis']=label.fit_transform(df['diagnosis'])

df.diagnosis

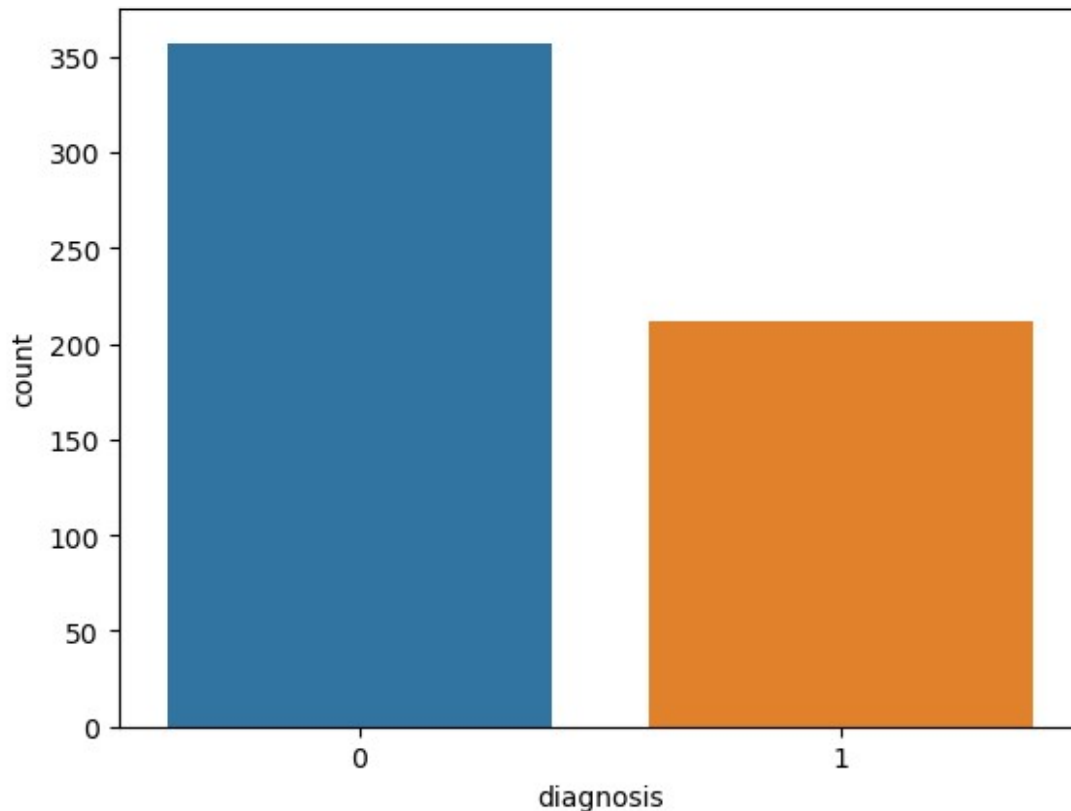
0      1
1      1
2      1
3      1
4      1
..
564    1
565    1
566    1
567    1
568    0
Name: diagnosis, Length: 569, dtype: int32

df.diagnosis.unique()

array([1, 0])
```

```
sns.countplot(df.diagnosis)
plt.show()
```

```
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
_decorators.py:36: FutureWarning: Pass the following variable as a
keyword arg: x. From version 0.12, the only valid positional argument
will be `data`, and passing other arguments without an explicit
keyword will result in an error or misinterpretation.
  warnings.warn(
```



## Segregation of Data(Independent and Dependent variables)

```
x=df.drop('diagnosis',axis=1)
y=df.diagnosis
```

x

	radius_mean	texture_mean	perimeter_mean	area_mean
smoothness_mean \				
0	17.99	10.38	122.80	1001.0
0.11840				

1	20.57	17.77	132.90	1326.0
0.08474				
2	19.69	21.25	130.00	1203.0
0.10960				
3	11.42	20.38	77.58	386.1
0.14250				
4	20.29	14.34	135.10	1297.0
0.10030				
...	...	...	...	...
...				
564	21.56	22.39	142.00	1479.0
0.11100				
565	20.13	28.25	131.20	1261.0
0.09780				
566	16.60	28.08	108.30	858.1
0.08455				
567	20.60	29.33	140.10	1265.0
0.11780				
568	7.76	24.54	47.92	181.0
0.05263				

	compactness_mean	concavity_mean	concave	points_mean
symmetry_mean \				
0	0.27760	0.30010		0.14710
0.2419				
1	0.07864	0.08690		0.07017
0.1812				
2	0.15990	0.19740		0.12790
0.2069				
3	0.28390	0.24140		0.10520
0.2597				
4	0.13280	0.19800		0.10430
0.1809				
...	...	...		...
...				
564	0.11590	0.24390		0.13890
0.1726				
565	0.10340	0.14400		0.09791
0.1752				
566	0.10230	0.09251		0.05302
0.1590				
567	0.27700	0.35140		0.15200
0.2397				
568	0.04362	0.00000		0.00000
0.1587				

	fractal_dimension_mean	...	radius_worst	texture_worst	\
0	0.07871	...	25.380	17.33	
1	0.05667	...	24.990	23.41	

2	0.05999	...	23.570	25.53
3	0.09744	...	14.910	26.50
4	0.05883	...	22.540	16.67
...	...	...	...	...
564	0.05623	...	25.450	26.40
565	0.05533	...	23.690	38.25
566	0.05648	...	18.980	34.12
567	0.07016	...	25.740	39.42
568	0.05884	...	9.456	30.37
	perimeter_worst	area_worst	smoothness_worst	compactness_worst
\				
0	184.60	2019.0	0.16220	0.66560
1	158.80	1956.0	0.12380	0.18660
2	152.50	1709.0	0.14440	0.42450
3	98.87	567.7	0.20980	0.86630
4	152.20	1575.0	0.13740	0.20500
...	...	...	...	...
564	166.10	2027.0	0.14100	0.21130
565	155.00	1731.0	0.11660	0.19220
566	126.70	1124.0	0.11390	0.30940
567	184.60	1821.0	0.16500	0.86810
568	59.16	268.6	0.08996	0.06444
	concavity_worst	concave points_worst	symmetry_worst	\
0	0.7119	0.2654	0.4601	
1	0.2416	0.1860	0.2750	
2	0.4504	0.2430	0.3613	
3	0.6869	0.2575	0.6638	
4	0.4000	0.1625	0.2364	
...	...	...	...	
564	0.4107	0.2216	0.2060	
565	0.3215	0.1628	0.2572	
566	0.3403	0.1418	0.2218	
567	0.9387	0.2650	0.4087	
568	0.0000	0.0000	0.2871	
	fractal_dimension_worst			
0	0.11890			
1	0.08902			

```

2          0.08758
3          0.17300
4          0.07678
..
564        0.07115
565        0.06637
566        0.07820
567        0.12400
568        0.07039

```

```
[569 rows x 30 columns]
```

y

```

0      1
1      1
2      1
3      1
4      1
..
564    1
565    1
566    1
567    1
568    0

```

```
Name: diagnosis, Length: 569, dtype: int32
```

## Data Normalization

we reduce all data to values between 0 and 1 so that operations can be performed and so that very large or very small values in the data cannot manipulate the data

```

from sklearn.preprocessing import MinMaxScaler
MinMax=MinMaxScaler()
scaled_data=MinMax.fit_transform(x)
x_data= pd.DataFrame(scaled_data, columns=x.columns)

```

x\_data

	radius_mean	texture_mean	perimeter_mean	area_mean
smoothness_mean \				
0	0.521037	0.022658	0.545989	0.363733
0.593753				
1	0.643144	0.272574	0.615783	0.501591
0.289880				
2	0.601496	0.390260	0.595743	0.449417
0.514309				
3	0.210090	0.360839	0.233501	0.102906
0.811321				
4	0.629893	0.156578	0.630986	0.489290

0.430351

...	...	...	...	...
...				
564	0.690000	0.428813	0.678668	0.566490
0.526948				
565	0.622320	0.626987	0.604036	0.474019
0.407782				
566	0.455251	0.621238	0.445788	0.303118
0.288165				
567	0.644564	0.663510	0.665538	0.475716
0.588336				
568	0.036869	0.501522	0.028540	0.015907
0.000000				

	compactness_mean	concavity_mean	concave points_mean
symmetry_mean \			
0	0.792037	0.703140	0.731113
0.686364			
1	0.181768	0.203608	0.348757
0.379798			
2	0.431017	0.462512	0.635686
0.509596			
3	0.811361	0.565604	0.522863
0.776263			
4	0.347893	0.463918	0.518390
0.378283			

...	...	...	...
...			
564	0.296055	0.571462	0.690358
0.336364			
565	0.257714	0.337395	0.486630
0.349495			
566	0.254340	0.216753	0.263519
0.267677			
567	0.790197	0.823336	0.755467
0.675253			
568	0.074351	0.000000	0.000000
0.266162			

	fractal_dimension_mean	...	radius_worst	texture_worst	\
0	0.605518	...	0.620776	0.141525	
1	0.141323	...	0.606901	0.303571	
2	0.211247	...	0.556386	0.360075	
3	1.000000	...	0.248310	0.385928	
4	0.186816	...	0.519744	0.123934	
...	...	...	...	...	
564	0.132056	...	0.623266	0.383262	
565	0.113100	...	0.560655	0.699094	
566	0.137321	...	0.393099	0.589019	



567	0.425442	...	0.633582	0.730277
568	0.187026	...	0.054287	0.489072
	perimeter_worst	area_worst	smoothness_worst	compactness_worst
\				
0	0.668310	0.450698	0.601136	0.619292
1	0.539818	0.435214	0.347553	0.154563
2	0.508442	0.374508	0.483590	0.385375
3	0.241347	0.094008	0.915472	0.814012
4	0.506948	0.341575	0.437364	0.172415
..	...	...	...	...
564	0.576174	0.452664	0.461137	0.178527
565	0.520892	0.379915	0.300007	0.159997
566	0.379949	0.230731	0.282177	0.273705
567	0.668310	0.402035	0.619626	0.815758
568	0.043578	0.020497	0.124084	0.036043
	concavity_worst	concave points_worst	symmetry_worst	\
0	0.568610	0.912027	0.598462	
1	0.192971	0.639175	0.233590	
2	0.359744	0.835052	0.403706	
3	0.548642	0.884880	1.000000	
4	0.319489	0.558419	0.157500	
..	...	...	...	
564	0.328035	0.761512	0.097575	
565	0.256789	0.559450	0.198502	
566	0.271805	0.487285	0.128721	
567	0.749760	0.910653	0.497142	
568	0.000000	0.000000	0.257441	
	fractal_dimension_worst			
0	0.418864			
1	0.222878			
2	0.213433			
3	0.773711			
4	0.142595			
..	...			
564	0.105667			
565	0.074315			
566	0.151909			

```
567          0.452315
568          0.100682
```

```
[569 rows x 30 columns]
```

## Splitting the Dataset into train and test dataset

```
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test = train_test_split(x_data,y,test_size =
0.3,random_state=1)
```

```
x_train
```

	radius_mean	texture_mean	perimeter_mean	area_mean
smoothness_mean \				
249	0.214823	0.176530	0.207864	0.111474
0.439379				
58	0.287236	0.324653	0.268261	0.162757
0.252505				
476	0.341663	0.365911	0.335982	0.201442
0.331137				
529	0.240854	0.126141	0.235229	0.127975
0.517920				
422	0.219083	0.213392	0.218851	0.112280
0.507087				
..	...	...	...	...
...				
129	0.606228	0.521136	0.598507	0.444751
0.441184				
144	0.178380	0.177883	0.169097	0.089841
0.228401				
72	0.483648	0.500845	0.486559	0.333362
0.491740				
235	0.333617	0.390260	0.317877	0.195080
0.343685				
37	0.286289	0.294555	0.268261	0.161315
0.335831				
compactness_mean		concavity_mean	concave points_mean	
symmetry_mean \				
249	0.180050	0.101406		0.145577
0.415657				
58	0.056776	0.001621		0.020711
0.383333				
476	0.280412	0.118627		0.151988
0.225253				
529	0.216889	0.088590		0.139066
0.301515				

422	0.298816	0.166284	0.223509
0.417172			
..	...	...	...
...			
129	0.427949	0.596298	0.571074
0.576768			
144	0.098184	0.052741	0.039140
0.171212			
72	0.501871	0.396439	0.394831
0.437879			
235	0.153580	0.034255	0.094235
0.230808			
37	0.056070	0.060028	0.145278
0.205556			

	fractal_dimension_mean	...	radius_worst	texture_worst	\
249	0.246841	...	0.167912	0.244403	
58	0.106361	...	0.224120	0.272655	
476	0.213353	...	0.303095	0.406183	
529	0.339511	...	0.196371	0.099947	
422	0.278854	...	0.167556	0.203891	
..	...	...	...	...	
129	0.235257	...	0.522946	0.574627	
144	0.145746	...	0.143010	0.231876	
72	0.314027	...	0.547492	0.581023	
235	0.176706	...	0.263252	0.486674	
37	0.182603	...	0.191035	0.287580	

	perimeter_worst	area_worst	smoothness_worst	compactness_worst	\
249	0.151751	0.075354	0.447269	0.127010	
58	0.198366	0.107870	0.204253	0.033588	
476	0.307236	0.158106	0.291422	0.306206	
529	0.181832	0.089633	0.534438	0.131861	
422	0.156980	0.071397	0.464439	0.184058	
..	...	...	...	...	
129	0.489516	0.345016	0.371987	0.348119	
144	0.136361	0.062918	0.240573	0.092179	
72	0.503959	0.367627	0.576702	0.690893	
235	0.238358	0.130333	0.379912	0.120315	

37	0.169580	0.088650	0.170640	0.018337
----	----------	----------	----------	----------

	concavity_worst	concave points_worst	symmetry_worst	\
249	0.144089	0.330172	0.216637	
58	0.001474	0.038179	0.172285	
476	0.200639	0.460137	0.191011	
529	0.129553	0.254055	0.239700	
422	0.183866	0.379725	0.240883	
..	...	...	...	
129	0.453115	0.595189	0.342992	
144	0.077915	0.117285	0.144885	
72	0.524441	0.652577	0.344569	
235	0.049768	0.273643	0.130298	
37	0.038602	0.172268	0.083185	

	fractal_dimension_worst
249	0.151187
58	0.051489
476	0.154401
529	0.167126
422	0.126131
..	...
129	0.194215
144	0.082973
72	0.517250
235	0.138594
37	0.043618

[398 rows x 30 columns]

y\_train

249	0
58	0
476	0
529	0
422	0
..	
129	1
144	0
72	1
235	0
37	0

Name: diagnosis, Length: 398, dtype: int32

```
print("x_train size:",x_train.shape)
print("x_test size:",x_test.shape)
print("y_train size:",y_train.shape)
print("y_test size:",y_test.shape)
```

```
x_tarin size: (398, 30)
x_test size: (171, 30)
y_tarin size: (398,)
y_test size: (171,)
```

## Choose the Model

```
# Create lists to store values
n_values = []
accuracy_scores = []

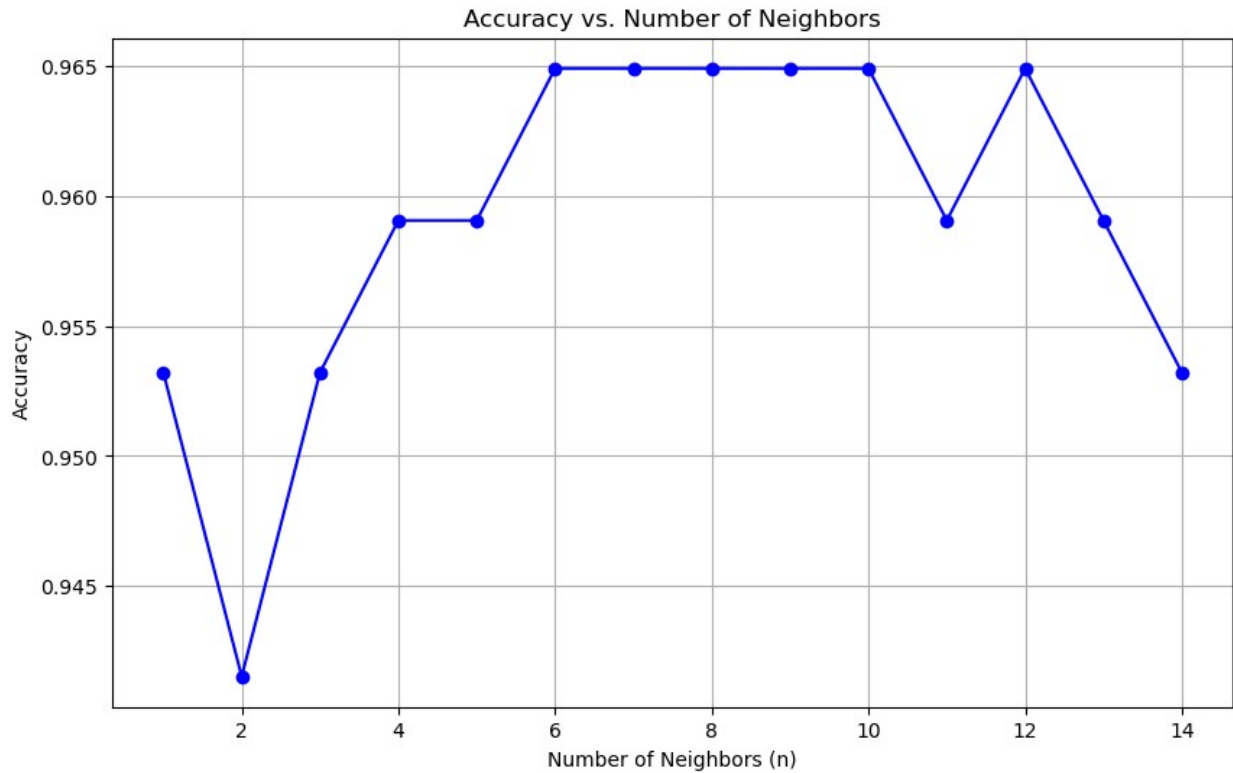
# Iterate over different values of n_neighbors
for n in range(1, 15):
    knn = KNeighborsClassifier(n_neighbors=n)
    knn.fit(x_train, y_train)
    accuracy = knn.score(x_test.values, y_test)

    n_values.append(n)
    accuracy_scores.append(accuracy)

# Plot the results
plt.figure(figsize=(10, 6))
plt.plot(n_values, accuracy_scores, marker='o', linestyle='--',
color='b')
plt.title('Accuracy vs. Number of Neighbors')
plt.xlabel('Number of Neighbors (n)')
plt.ylabel('Accuracy')
plt.grid(True)
plt.show()

C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
```

```
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X feature names is None and fitted feature names is not None:
```



Score\_list

```
[0.9532163742690059,  
 0.9415204678362573,  
 0.9532163742690059,  
 0.9590643274853801,  
 0.9590643274853801,  
 0.9649122807017544,  
 0.9649122807017544,  
 0.9649122807017544,  
 0.9649122807017544,  
 0.9649122807017544,  
 0.9590643274853801,  
 0.9649122807017544,  
 0.9590643274853801,  
 0.9532163742690059]
```

```
from sklearn.neighbors import KNeighborsClassifier  
knn = KNeighborsClassifier(n_neighbors=3)  
knn.fit(x_train,y_train)  
prediction = knn.predict(x_test.values)  
print("{} nn {} score".format(3,knn.score(x_test.values,y_test)))  
3 nn 0.9532163742690059 score
```

```
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
    if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
    if X_feature_names is None and fitted_feature_names is not None:
```

## Evolution of Model

```
print(metrics.classification_report(y_test,prediction))
```

	precision	recall	f1-score	support
0	0.95	0.98	0.96	108
1	0.97	0.90	0.93	63
accuracy			0.95	171
macro avg	0.96	0.94	0.95	171
weighted avg	0.95	0.95	0.95	171

```
print(metrics.recall_score(y_test,prediction))
```

```
0.9047619047619048
```

```
print(metrics.f1_score(y_test,prediction))
```

```
0.9344262295081968
```

```
sns.distplot(y_test,hist=False,color="r")
sns.distplot(prediction,hist=False,color="b")
plt.show()
```

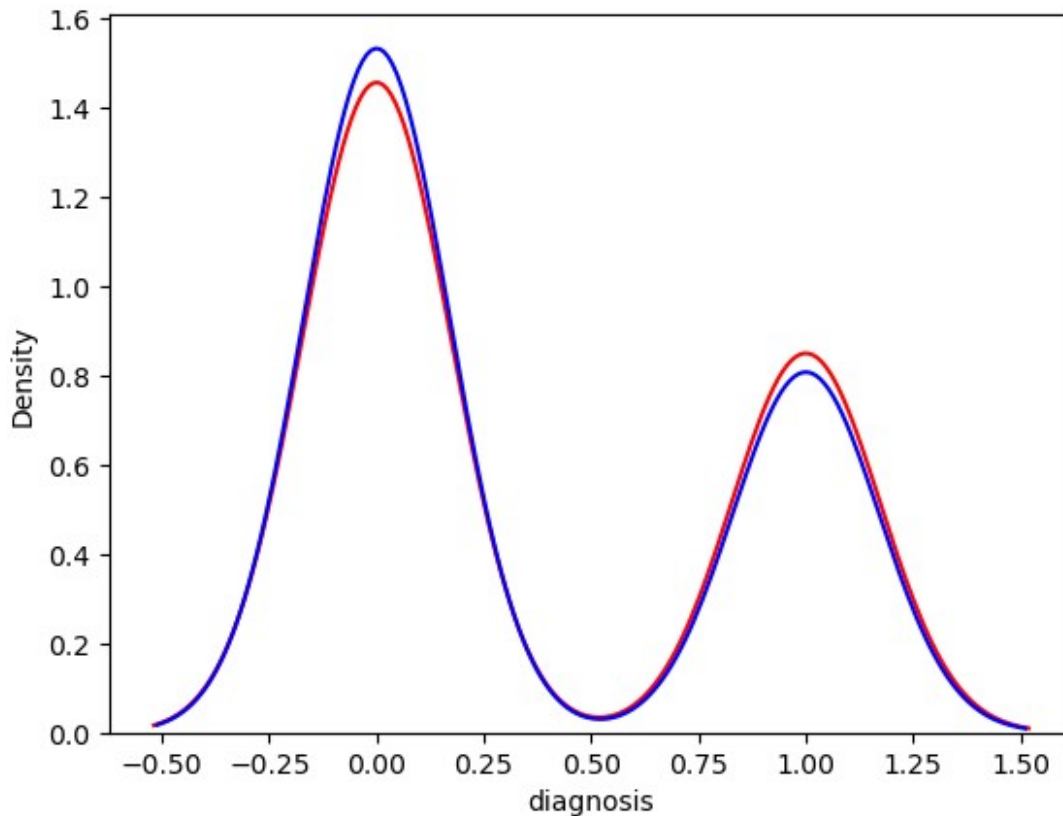
```
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
distributions.py:2619: FutureWarning: `distplot` is a deprecated
function and will be removed in a future version. Please adapt your
code to use either `displot` (a figure-level function with similar
flexibility) or `kdeplot` (an axes-level function for kernel density
plots).
```

```
warnings.warn(msg, FutureWarning)
```

```
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\seaborn\
distributions.py:2619: FutureWarning: `distplot` is a deprecated
function and will be removed in a future version. Please adapt your
code to use either `displot` (a figure-level function with similar
flexibility) or `kdeplot` (an axes-level function for kernel density
plots).
```

```
warnings.warn(msg, FutureWarning)
```





## Hyper Parameter Tunning

```
# Define the hyperparameter grid
param_grid = {
    'n_neighbors': [3, 5, 7, 9, 11], # Example values for n_neighbors
    'weights': ['uniform', 'distance'], # Weighting options
    'metric': ['euclidean', 'manhattan'] # Distance metrics
}

# Create the KNN classifier
knn = KNeighborsClassifier()

# Perform grid search with cross-validation
grid_search = GridSearchCV(estimator=knn, param_grid=param_grid,
    scoring='accuracy', cv=5)
grid_search.fit(x_train, y_train)
```

```
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
model_selection\_validation.py:824: UserWarning: Scoring failed. The
score on this train-test partition for these parameters will be set to
```

```

nan. Details:
Traceback (most recent call last):
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
model_selection\_validation.py", line 813, in _score
    # If `MultimetricScorer` raises exception, the `error_score`
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_scorer.py", line 266, in __call__
    return self._score(partial(_cached_call, None), estimator, X,
y_true, **kwargs)
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
utils\_response.py", line 85, in _get_response_values
    - for binary classification, it is a 1d array of shape
`(n_samples,)` where the
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
neighbors\_classification.py", line 246, in predict
    y : ndarray of shape (n_queries,) or (n_queries, n_outputs)
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_pairwise_distances_reduction\_dispatcher.py", line 471, in
is_usable_for
    return (
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_pairwise_distances_reduction\_dispatcher.py", line 115, in
is_usable_for
    get_config().get("enable_cython_pairwise_dist", True)
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_pairwise_distances_reduction\_dispatcher.py", line 99, in
is_numpy_c_ordered
    return hasattr(X, "flags") and getattr(X.flags, "c_contiguous",
False)
AttributeError: 'Flags' object has no attribute 'c_contiguous'

f"these parameters will be set to {error_score}. Details: \n"
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
model_selection\_validation.py:824: UserWarning: Scoring failed. The
score on this train-test partition for these parameters will be set to
nan. Details:
Traceback (most recent call last):
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    # If `MultimetricScorer` raises exception, the `error_score`
  File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_scorer.py", line 266, in __call__
    return self._score(partial(_cached_call, None), estimator, X,

```

```

y_true, **kwargs)
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
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    - for binary classification, it is a 1d array of shape
    `(n_samples,)` where the
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
neighbors\_classification.py", line 246, in predict
    y : ndarray of shape (n_queries,) or (n_queries, n_outputs)
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_pairwise_distances_reduction\_dispatcher.py", line 471, in
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    return (
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_pairwise_distances_reduction\_dispatcher.py", line 115, in
is_usable_for
    get_config().get("enable_cython_pairwise_dist", True)
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_pairwise_distances_reduction\_dispatcher.py", line 99, in
is_numpy_c_ordered
    return hasattr(X, "flags") and getattr(X.flags, "c_contiguous",
False)
AttributeError: 'Flags' object has no attribute 'c_contiguous'

f"these parameters will be set to {error_score}. Details: \n"
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
model_selection\_validation.py:824: UserWarning: Scoring failed. The
score on this train-test partition for these parameters will be set to
nan. Details:
Traceback (most recent call last):
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
model_selection\_validation.py", line 813, in _score
    # If `_MultimetricScorer` raises exception, the `error_score`
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_scorer.py", line 266, in __call__
    return self._score(partial(_cached_call, None), estimator, X,
y_true, **kwargs)
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\

```

```

utils\_response.py", line 85, in _get_response_values
    - for binary classification, it is a 1d array of shape
    `(n_samples,)` where the
      File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
neighbors\_classification.py", line 246, in predict
      y : ndarray of shape (n_queries,) or (n_queries, n_outputs)
      File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
metrics\_pairwise_distances_reduction\_dispatcher.py", line 471, in
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      return (
      File "C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
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```

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C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
model_selection\_search.py:976: UserWarning: One or more of the test
scores are non-finite: [
    nan 0.96487342    nan 0.96490506
    nan 0.96240506
    nan 0.95740506    nan 0.96490506    nan 0.97490506
    nan 0.97243671    nan 0.96490506    nan 0.96490506
    nan 0.95740506]
    if key_name.startswith(("train_", "test_")) and np.any(
GridSearchCV(cv=5, estimator=KNeighborsClassifier(),
    param_grid={'metric': ['euclidean', 'manhattan'],
                'n_neighbors': [3, 5, 7, 9, 11],
                'weights': ['uniform', 'distance']},
    scoring='accuracy')

```

```

# Get the best hyperparameters
best_params = grid_search.best_params_
print(best_params)

{'metric': 'manhattan', 'n_neighbors': 3, 'weights': 'distance'}

from sklearn.neighbors import KNeighborsClassifier
hyper_knn =
KNeighborsClassifier(n_neighbors=3,metric="manhattan",weights="distance")
hyper_knn.fit(x_train,y_train)
hyper_prediction = hyper_knn.predict(x_test.values)
print("{} nn {}
score".format(3,hyper_knn.score(x_test.values,y_test)))

3 nn 0.9590643274853801 score

C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:
C:\Users\Arigala.Adarsh\anaconda3\lib\site-packages\sklearn\
base.py:464: UserWarning: X does not have valid feature names, but
KNeighborsClassifier was fitted with feature names
  if X_feature_names is None and fitted_feature_names is not None:

print(metrics.classification_report(y_test,hyper_prediction))


```

	precision	recall	f1-score	support
0	0.95	0.98	0.97	108
1	0.97	0.92	0.94	63
accuracy			0.96	171
macro avg	0.96	0.95	0.96	171
weighted avg	0.96	0.96	0.96	171

```

print(metrics.accuracy_score(y_test,hyper_prediction))

0.9590643274853801

```

After applying of the hyper parameter tuning we got same value of Evolution metrics.