

```
[26]: import pandas as p #data manipulation
import warnings as w##remove minor/files warnings
w.filterwarnings('ignore')
from sklearn.model_selection import train_test_split #Scikit- Learn ML models not changeable
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import classification_report,accuracy_score
```

```
[27]: df= p.read_csv("Testing.csv")
df
```

```
[27]:
```

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age	Outcome
0	9	120	72	22	56	20.8	0.733	48	0
1	1	71	62	0	0	21.8	0.416	26	0
2	8	74	70	40	49	35.3	0.705	39	0
3	5	88	78	30	0	27.6	0.258	37	0
4	10	115	98	0	0	24.0	1.022	34	0
...
303	10	101	76	48	180	32.9	0.171	63	0
304	2	122	70	27	0	36.8	0.340	27	0
305	5	121	72	23	112	26.2	0.245	30	0
306	1	126	60	0	0	30.1	0.349	47	1
307	1	93	70	31	0	30.4	0.315	23	0

308 rows × 9 columns

```
[28]: y= df['Outcome']
y
```

```
[28]: 0      0
1      0
2      0
3      0
4      0
..
303    0
304    0
305    0
306    1
307    0
Name: Outcome, Length: 308, dtype: int64
```

```
[29]: x = df.drop('Outcome',axis=1)
x
```

```
[29]:
```

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age
0	9	120	72	22	56	20.8	0.733	48
1	1	71	62	0	0	21.8	0.416	26
2	8	74	70	40	49	35.3	0.705	39
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303	10	101	76	48	180	32.9	0.171	63
304	2	122	70	27	0	36.8	0.340	27
305	5	121	72	23	112	26.2	0.245	30
306	1	126	60	0	0	30.1	0.349	47
307	1	93	70	31	0	30.4	0.315	23

308 rows × 8 columns

```
[30]: x_train,x_test,y_train,y_test = train_test_split(x,y,test_size=0.25)
```

```
[31]: model =LogisticRegression()#apply algo
model.fit(x_train,y_train) #fitting model
p = model.predict(x_test) #predicting feature data %
```

```
[32]: accuracy_score(p,y_test)*100
```

```
[32]: 85.71428571428571
```

```
[33]: print(classification_report(y_test,p))
```

	precision	recall	f1-score	support
0	0.90	0.92	0.91	59
1	0.71	0.67	0.69	18
accuracy			0.86	77
macro avg	0.80	0.79	0.80	77
weighted avg	0.85	0.86	0.86	77

```
[ ]:
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