

```

import pandas as pd
import numpy as np
from sklearn.linear_model import LogisticRegression

dia=pd.read_csv("/content/drive/MyDrive/Logestic/dataset.csv")
dia.head()

{"summary":{"\n  \"name\": \"dia\", \n  \"rows\": 3000, \n  \"fields\": [\n    {\n      \"column\": \"GENDER\", \n      \"properties\": {\n        \"dtype\": \"category\", \n        \"num_unique_values\": 2, \n        \"samples\": [\n          \"F\", \n          \"M\" \n        ], \n        \"semantic_type\": \"\", \n        \"description\": \"\" \n      }, \n      \"column\": \"AGE\", \n      \"properties\": {\n        \"dtype\": \"number\", \n        \"std\": 14, \n        \"min\": 30, \n        \"max\": 80, \n        \"num_unique_values\": 51, \n        \"samples\": [\n          73, \n          52 \n        ], \n        \"semantic_type\": \"\", \n        \"description\": \"\" \n      }, \n      \"column\": \"SMOKING\", \n      \"properties\": {\n        \"dtype\": \"number\", \n        \"std\": 0, \n        \"min\": 1, \n        \"max\": 2, \n        \"num_unique_values\": 2, \n        \"samples\": [\n          2, \n          1 \n        ], \n        \"semantic_type\": \"\", \n        \"description\": \"\" \n      }, \n      \"column\": \"YELLOW_FINGERS\", \n      \"properties\": {\n        \"dtype\": \"number\", \n        \"std\": 0, \n        \"min\": 1, \n        \"max\": 2, \n        \"num_unique_values\": 2, \n        \"samples\": [\n          2, \n          1 \n        ], \n        \"semantic_type\": \"\", \n        \"description\": \"\" \n      }, \n      \"column\": \"ANXIETY\", \n      \"properties\": {\n        \"dtype\": \"number\", \n        \"std\": 0, \n        \"min\": 1, \n        \"max\": 2, \n        \"num_unique_values\": 2, \n        \"samples\": [\n          2, \n          1 \n        ], \n        \"semantic_type\": \"\", \n        \"description\": \"\" \n      }, \n      \"column\": \"PEER_PRESSURE\", \n      \"properties\": {\n        \"dtype\": \"number\", \n        \"std\": 0, \n        \"min\": 1, \n        \"max\": 2, \n        \"num_unique_values\": 2, \n        \"samples\": [\n          1, \n          2 \n        ], \n        \"semantic_type\": \"\", \n        \"description\": \"\" \n      }, \n      \"column\": \"CHRONIC_DISEASE\", \n      \"properties\": {\n        \"dtype\": \"number\", \n        \"std\": 0, \n        \"min\": 1, \n        \"max\": 2, \n        \"num_unique_values\": 2, \n        \"samples\": [\n          1, \n          2 \n        ], \n        \"semantic_type\": \"\", \n        \"description\": \"\" \n      }, \n      \"column\": \"FATIGUE\", \n      \"properties\": {\n        \"dtype\": \"number\", \n        \"std\": 0, \n        \"min\": 1, \n        \"max\": 2, \n        \"num_unique_values\": 2, \n        \"samples\": [\n          2, \n          1 \n        ], \n        \"semantic_type\": \"\", \n        \"description\": \"\" \n      }, \n      \"column\": \"ALLERGY\", \n      \"properties\": {\n        \"dtype\": \"number\", \n        \"std\": 0, \n        \"min\": 1, \n        \"max\": 2, \n        \"num_unique_values\": 2, \n        \"samples\":

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[\n          1,\n          2\n          ],\n          \"semantic_type\":\n          \"\",\n          \"description\": \"\"\n          },\n          {\n          \"column\": \"WHEEZING\",\n          \"properties\": {\n          \"dtype\":\n          \"number\",\n          \"std\": 0,\n          \"min\": 1,\n          \"max\": 2,\n          \"num_unique_values\": 2,\n          \"samples\":\n          [\n          1,\n          2\n          ],\n          \"semantic_type\":\n          \"\",\n          \"description\": \"\"\n          },\n          {\n          \"column\": \"ALCOHOL_CONSUMING\",\n          \"properties\": {\n          \"dtype\": \"number\",\n          \"std\": 0,\n          \"min\": 1,\n          \"max\": 2,\n          \"num_unique_values\": 2,\n          \"samples\":\n          [\n          1,\n          2\n          ],\n          \"semantic_type\":\n          \"\",\n          \"description\": \"\"\n          },\n          {\n          \"column\": \"COUGHING\",\n          \"properties\": {\n          \"dtype\": \"number\",\n          \"std\": 0,\n          \"min\": 1,\n          \"max\": 2,\n          \"num_unique_values\": 2,\n          \"samples\":\n          [\n          1,\n          2\n          ],\n          \"semantic_type\":\n          \"\",\n          \"description\": \"\"\n          },\n          {\n          \"column\": \"SHORTNESS_OF_BREATH\",\n          \"properties\": {\n          \"dtype\": \"number\",\n          \"std\": 0,\n          \"min\": 1,\n          \"max\": 2,\n          \"num_unique_values\": 2,\n          \"samples\":\n          [\n          1,\n          2\n          ],\n          \"semantic_type\":\n          \"\",\n          \"description\": \"\"\n          },\n          {\n          \"column\": \"SWALLOWING_DIFFICULTY\",\n          \"properties\": {\n          \"dtype\": \"number\",\n          \"std\": 0,\n          \"min\": 1,\n          \"max\": 2,\n          \"num_unique_values\": 2,\n          \"samples\":\n          [\n          1,\n          2\n          ],\n          \"semantic_type\":\n          \"\",\n          \"description\": \"\"\n          },\n          {\n          \"column\": \"CHEST_PAIN\",\n          \"properties\": {\n          \"dtype\": \"number\",\n          \"std\": 0,\n          \"min\": 1,\n          \"max\": 2,\n          \"num_unique_values\": 2,\n          \"samples\":\n          [\n          2,\n          1\n          ],\n          \"semantic_type\":\n          \"\",\n          \"description\": \"\"\n          },\n          {\n          \"column\": \"LUNG_CANCER\",\n          \"properties\": {\n          \"dtype\": \"category\",\n          \"num_unique_values\": 2,\n          \"samples\": [\n          \"YES\",\n          \"NO\"\n          ],\n          \"semantic_type\": \"\",\n          \"description\": \"\"\n          }\n          }\n          ],\n          \"type\": \"dataframe\", \"variable_name\": \"dia\"}

```

```
ind=dia[["SMOKING","PEER_PRESSURE"]]
```

```
oud=dia["LUNG_CANCER"]
```

```
Logr=LogisticRegression()
```

```
Logr.fit(ind,oud)
```

```
LogisticRegression()
```

```
smoke=int(input("Enter smoking value:"))
```

```
peerpressure=int(input("Enter the peerpressure:"))
```

```
pred=Logr.predict([[smoke,peerpressure]])  
print(pred)
```

```
Enter smoking value:2  
Enter the peerpressure:1  
['YES']
```

```
/usr/local/lib/python3.12/dist-packages/sklearn/utils/  
validation.py:2739: UserWarning: X does not have valid feature names,  
but LogisticRegression was fitted with feature names  
warnings.warn(
```