

```

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

cam=pd.read_csv("/content/drive/MyDrive/Campus_Selection.csv")
cam.head()

{"summary": {"name": "cam", "rows": 215, "fields": [
    {"column": "sl_no", "properties": {"dtype": "number", "std": 62, "min": 1, "max": 215, "num_unique_values": 215, "samples": [201, 213, 139], "semantic_type": "\\", "description": "\n"}, "column": "gender", "properties": {"dtype": "category", "num_unique_values": 2, "samples": ["F", "M"], "semantic_type": "\\", "description": "\n"}, "column": "ssc_p", "properties": {"dtype": "number", "std": 10.827205398231452, "min": 40.89, "max": 89.4, "num_unique_values": 103, "samples": [74.0, 73.96], "semantic_type": "\\", "description": "\n"}, "column": "ssc_b", "properties": {"dtype": "category", "num_unique_values": 2, "samples": ["Central", "Others"], "semantic_type": "\\", "description": "\n"}, "column": "hsc_p", "properties": {"dtype": "number", "std": 10.89750915750298, "min": 37.0, "max": 97.7, "num_unique_values": 97, "samples": [82.0, 73.2], "semantic_type": "\\", "description": "\n"}, "column": "hsc_b", "properties": {"dtype": "category", "num_unique_values": 2, "samples": ["Central", "Others"], "semantic_type": "\\", "description": "\n"}, "column": "hsc_s", "properties": {"dtype": "category", "num_unique_values": 3, "samples": ["Commerce", "Science"], "semantic_type": "\\", "description": "\n"}, "column": "degree_p", "properties": {"dtype": "number", "std": 7.358743287339439, "min": 50.0, "max": 91.0, "num_unique_values": 89, "samples": [71.72, 76.0], "semantic_type": "\\", "description": "\n"}, "column": "degree_t", "properties": {"dtype": "category", "num_unique_values": 3, "samples": ["Sci&Tech", "Comm&Mgmt"], "semantic_type": "\\", "description": "\n"}]}]}

```

```

    "semantic_type": "\",\n      "description": \"\\n      }\n    },\n      {\n        "column": "workex",\n        "properties": {\n          "dtype": "category",\n          "num_unique_values": 2,\n          "samples": [\n            {"Yes",\n             "No"},\n            {"semantic_type": "\",\n              "description": \"\\n\n            },\n              {\n                "column": "etest_p",\n                "properties": {\n                  "dtype": "number",\n                  "std": 13.275956401653835,\n                  "min": 50.0,\n                  "max": 98.0,\n                  "num_unique_values": 100,\n                  "samples": [\n                    {"93.4",\n                     "semantic_type": "\",\n                      "description": \"\\n\n                    },\n                      {\n                        "column": "specialisation",\n                        "properties": {\n                          "dtype": "category",\n                          "num_unique_values": 2,\n                          "samples": [\n                            {"Mkt&Fin",\n                             "Mkt&HR"},\n                            {"semantic_type": "\",\n                              "description": \"\\n\n                            },\n                            {\n                              "column": "mba_p",\n                              "properties": {\n                                "dtype": "number",\n                                "std": 5.8333845806838,\n                                "min": 51.21,\n                                "max": 77.89,\n                                "num_unique_values": 205,\n                                "samples": [\n                                  {"64.66",\n                                   "52.21"},\n                                  {"semantic_type": "\",\n                                    "description": \"\\n\n                                },\n                                {\n                                  "column": "status",\n                                  "properties": {\n                                    "dtype": "category",\n                                    "num_unique_values": 2,\n                                    "samples": [\n                                      {"Placed",\n                                       "Not Placed"},\n                                      {"semantic_type": "\",\n                                        "description": \"\\n\n                                    },\n                                    {\n                                      "variable_name": "cam"
}
}

cam.isnull().sum()

sl_no          0
gender         0
ssc_p          0
ssc_b          0
hsc_p          0
hsc_b          0
hsc_s          0
degree_p       0
degree_t       0
workex         0
etest_p        0
specialisation 0
mba_p          0
status          0
dtype: int64

ind=cam[['gender','ssc_p','hsc_p','degree_p']]
dep=cam['status']

```

```

Logr=LogisticRegression()
ind_encoded = pd.get_dummies(ind, columns=['gender'], drop_first=True)
Logr.fit(ind_encoded,dep)

LogisticRegression()

gender_input = input("enter gender (Male/Female):")
if gender_input.lower() == 'male':
    gender_encoded = 1 # Assuming gender_M is True for Male
elif gender_input.lower() == 'female':
    gender_encoded = 0 # Assuming gender_M is False for Female
else:
    print("Invalid gender input. Please enter 'Male' or 'Female'.")
    # You might want to handle this error more robustly, e.g., by
    exiting or re-prompting.
    gender_encoded = None # Placeholder, will cause error if not
handled

if gender_encoded is not None:
    ssc_p=int(input("enter ssc_p:"))
    hsc_p=int(input("enter the hsc_p:"))
    degree_p=int(input("enter the degree_p:"))

    # The order of features in Logr.predict should match ind_encoded:
    ssc_p, hsc_p, degree_p, gender_M
    pred=Logr.predict([[ssc_p, hsc_p, degree_p, gender_encoded]])
    print(pred)

Logr.score(ind_encoded,dep)

from sklearn.metrics import accuracy_score
pval=Logr.predict(ind_encoded)
accuracy_score(dep,pval)

```