

```

...      id  gender  age  hypertension  heart_disease  ever_married  \
0    9046   Male  67.0           0           1           Yes
1   51676  Female  61.0           0           0           Yes
2   31112   Male  80.0           0           1           Yes
3   60182  Female  49.0           0           0           Yes
4    1665  Female  79.0           1           0           Yes

      work_type  Residence_type  avg_glucose_level  bmi  smoking_status  \
0      Private      Urban      228.69  36.6  formerly smoked
1  Self-employed      Rural      202.21  NaN  never smoked
2      Private      Rural      105.92  32.5  never smoked
3      Private      Urban      171.23  34.4  smokes
4  Self-employed      Rural      174.12  24.0  never smoked

stroke
0      1
1      1
2      1
3      1
4      1

```

```

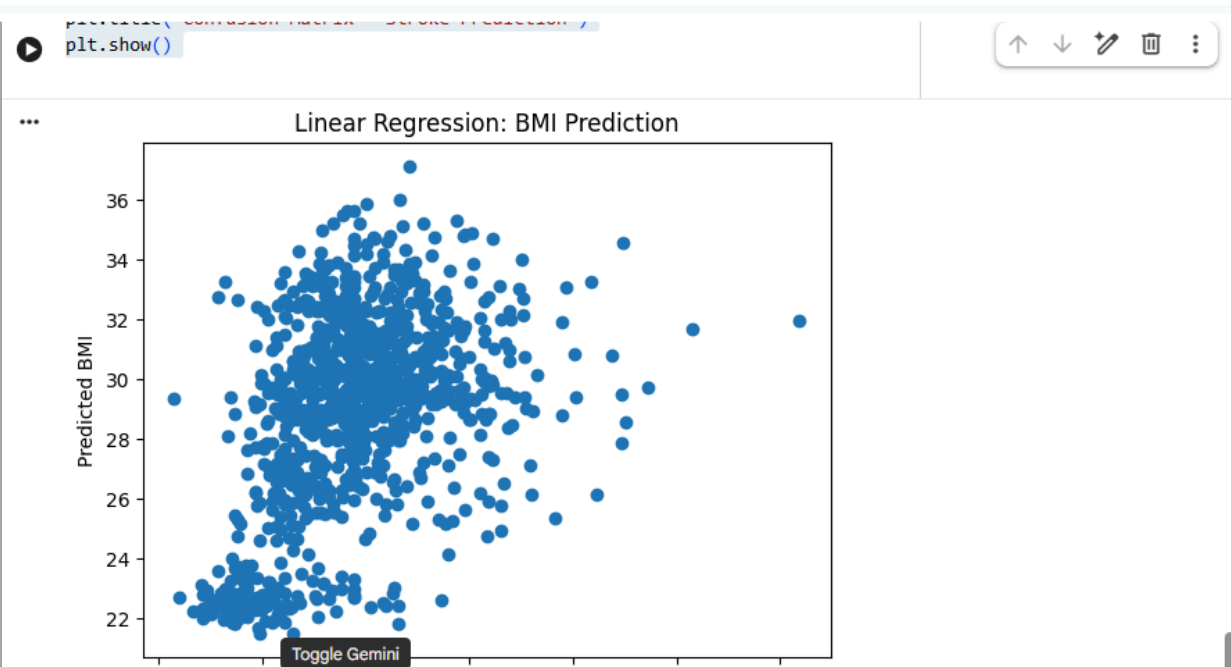
plt.show()

... After Encoding:
      gender  age  hypertension  heart_disease  ever_married  work_type  \
0         1  67.0           0           1           1           2
1         0  61.0           0           0           1           3
2         1  80.0           0           1           1           2
3         0  49.0           0           0           1           2
4         0  79.0           1           0           1           3

      Residence_type  avg_glucose_level  bmi  smoking_status  stroke
0              1      228.69  36.600000      1      1
1              0      202.21  28.893237      2      1
2              0      105.92  32.500000      2      1
3              1      171.23  34.400000      3      1
4              0      174.12  24.000000      2      1

===== LINEAR REGRESSION =====
MAE: 5.018980827980884
MSE: 43.9725374897823
RMSE: 6.6311791930080055
R2 Score: 0.2071236662250704
/tmp/ipython-input-1180728137.py:34: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object is

```



===== LOGISTIC REGRESSION =====
*** Accuracy: 0.9393346379647749

Confusion Matrix:

```
[[960  0]
 [ 62  0]]
```

Classification Report:

	precision	recall	f1-score	support
0	0.94	1.00	0.97	960
1	0.00	0.00	0.00	62
accuracy			0.94	1022
macro avg	0.47	0.50	0.48	1022
weighted avg	0.88	0.94	0.91	1022

```
/usr/local/lib/python3.12/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Precision is ill-defined for label 1: no predicted samples
_warn_prf(average, modifier, f'{metric.capitalize()} is', len(result))
/usr/local/lib/python3.12/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Precision is ill-defined for label 1: no predicted samples
_warn_prf(average, modifier, f'{metric.capitalize()} is', len(result))
/usr/local/lib/python3.12/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Precision is ill-defined for label 1: no predicted samples
_warn_prf(average, modifier, f'{metric.capitalize()} is', len(result))
```

Confusion Matrix - Stroke Prediction

Toggle Gemini

```
_warm_print(average, modelizer, f'{metric.capitalize()} is ', len(result))
```

Confusion Matrix - Stroke Prediction

