

Report-Regardig Assessment

Step 1:

Importing the csv files and cleaning the datas etc

Step 2:

Installation of the required libraries and importing it

Step 3:

Writing the python code.Training the model

Step 4:

```
Cleaned column names:
Index(['fixed acidity', 'volatile acidity', 'citric acid', 'residual sugar',
      'chlorides', 'free sulfur dioxide', 'total sulfur dioxide', 'density',
      'pH', 'sulphates', 'alcohol', 'quality'],
      dtype='object')

Missing values in each column:
fixed acidity      0
volatile acidity   0
citric acid        0
residual sugar     0
chlorides          0
free sulfur dioxide 0
total sulfur dioxide 0
density            0
pH                 0
sulphates          0
alcohol            0
quality            0
dtype: int64

Missing values after filling:
fixed acidity      0
volatile acidity   0
citric acid        0
residual sugar     0
chlorides          0
free sulfur dioxide 0
total sulfur dioxide 0
density            0
pH                 0
sulphates          0
alcohol            0
quality            0
dtype: int64

Encoded 'quality' values:
0    2.0
1    2.0
```

Missing values after filling:

```
fixed acidity      0
volatile acidity   0
citric acid        0
residual sugar     0
chlorides          0
free sulfur dioxide 0
total sulfur dioxide 0
density           0
pH                0
sulphates         0
alcohol           0
quality           0
dtype: int64
```

Encoded 'quality' values:

```
0    2.0
1    2.0
2    2.0
3    3.0
4    2.0
Name: quality, dtype: float64
```

Mean Squared Error: 0.39
R² Score: 0.40

Accuracy (within threshold of 0.5): 57.19%

Predictions on test set:

```
[2.34666441 2.05631345 2.66446972 2.46451484 2.72518476 2.27928659
 2.03421667 2.12623347 2.74534288 2.68665032]
```

qt.qpa.plugin: Could not find the Qt platform plugin "wayland" in ""

libGL error: MESA-LOADER: failed to open iris: /usr/lib/dri/iris_dri.so: cannot open shared object file: No such file or directory
x86_64-linux-gnu/dri:\\${ORIGIN}/dri:/usr/lib/dri, suffix _dri)

libGL error: failed to load driver: iris

libGL error: MESA-LOADER: failed to open swrast: /usr/lib/dri/swrast_dri.so: cannot open shared object file: No such file or directory
lib/x86_64-linux-gnu/dri:\\${ORIGIN}/dri:/usr/lib/dri, suffix _dri)

libGL error: failed to load driver: swrast



x=3.465 y=4.735

