





Sweetness: 5.49  
Moisture\_content: 7.15  
Impurities: 3.01  
Acidity: 7.63  
Color: 4.24  
Particle\_size: 322.95  
Crystallinity: 43.76  
Granulation: 8.92  
Solubility: 96.37  
Density: 0.77  
Reducing\_sugars: 7.92  
Total\_sugar\_content: 52.89  
Predicted Quality: 54.94

PythonProject1 - user\_interface.py

```
1 import tkinter as tk
2 from tkinter import messagebox
3 import numpy as np
4 import mysql.connector
5 from db_connection import db
```

Quality Pred... — □ ×

the Sugar Quality Prediction System

Login

Register

Impurities: 3.01  
Acidity: 7.63  
Color: 4.24  
Particle\_size: 322.95  
Crystallinity: 43.76  
Granulation: 8.92  
Solubility: 96.37  
Density: 0.77  
Reducing\_sugars: 7.92  
Total\_sugar\_content: 52.89

☐ LinearRegression ☒ DecisionTree ☐ RandomForest ☐ SVR

Submit

Manual Input

|                     |                      |
|---------------------|----------------------|
| Sweetness           | <input type="text"/> |
| Moisture_content    | <input type="text"/> |
| Impurities          | <input type="text"/> |
| Acidity             | <input type="text"/> |
| Color               | <input type="text"/> |
| Particle_size       | <input type="text"/> |
| Crystallinity       | <input type="text"/> |
| Granulation         | <input type="text"/> |
| Solubility          | <input type="text"/> |
| Density             | <input type="text"/> |
| Reducing_sugars     | <input type="text"/> |
| Total_sugar_content | <input type="text"/> |

☐ LinearRegression

☐ DecisionTree

☐ RandomForest

☐ SVR

Submit

```
import tkinter as tk
from tkinter import *
import tkinter.ttk as ttk, messagebox
import numpy as np
import mysql.connector
from mysql.connector import *
def insert_values():
    fetch_user_data()
    insert_data()
def predict_quality():
    import pre
def generate_dataset():
    import ge
def user_login():
    user = None
    role = None
def create_connection():
    connection = mysql.connector
    host='localhost'
    user='root'
    password='root'
    database='sugar'
```

Manual Input

Sweetness

5.49

Moisture\_content

7.15

Impurities

3.01

Acidity

7.63

Color

4.24

Particle\_size

322.95

Reducing\_sugars

43.76

Total\_sugar\_content

8.92

96.37

0.77

7.92

52.89

☒ LinearRegression

☐ DecisionTree

☐ RandomForest

☐ SVR

Submit

Result

i

Sugar Quality: 54.93

OK