PREDICTING THE UNPREDICTABLE : A LOOK INTO THE WORLD OF POWERLIFTING

AN INDUSTRY ORIENTED MINI REPORT

Submitted to

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In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING(AI&ML)

Submitted by

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VAAGDEVI ENGINEERING COLLEGE BOLLIKUNTA, WARANGAL – 506005



CERTIFICATE OF COMPLETION

INDUSTRY ORIENTED MINI PROJECT

This is to certify that the UG Project Phase-1 entitled "PREDICTING THE UNPREDICTABLE: A LOOK INTO THE WORLD OF POWERLIFTING" Is being submitted by - REDDYCHERLA SAIDEEPIKA (H.NO:20UK1A6625), BODDUPALLY VENKATESH (H.NO:20UK1A6639) , DEVASANI PRANADEEP (H.NO:20UK1A6647) , JELLA SREEJA (H.NO:20UK1A6656) , in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering(AI & ML) to Jawaharlal Nehru Technological University Hyderabad during the academic year 2023-24, is a record of work carried out by them under the guidance and supervision.

Project Guide

Head of the Department

Mr. N. Sandeep Kumar (Assistant Professor)

Dr. R. Naveen Kumar (Professor)

External

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ABSTRACT

In the intensely competitive world of powerlifting, where athletes continually push their limits to excel in the squat, bench press, and deadlift, traditional training methods have been the mainstay. However, this project sets out to explore the integration of predictive analytics and machine learning into the realm of powerlifting. By harnessing a wide array of athlete data encompassing training metrics, dietary information, biomechanical variables, and injury histories, the study aims to develop predictive models. These models can offer insights into injury prevention, optimize training routines, and forecast an athlete's future performance.

From novice enthusiasts to elite powerlifters, this research covers a broad spectrum, facilitating personalized training programs and tailored performance predictions. By leveraging artificial intelligence and data-driven insights, we aim to uncover previously elusive aspects of powerlifting. Ultimately, the project strives to bridge the gap between established powerlifting practices and the evolving landscape of sports science, ushering in a new era of data-driven training. This endeavor promises to empower coaches and athletes with invaluable tools to enhance training strategies and reach new heights of performance and safety in the world of powerlifting.

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1.INTRODUCTION

1.1. OVERVIEW

Powerlifting is a popular sport. In competition, the impact on powerlifters' performance is mainly due to age, weight, fitness and psychology. Therefore, the training methods of coaches for powerlifters are extremely important, and studying the factors that influence athletes' performance is an inseparable task in training process. based on the powerlifting data in the international competitions; they calculated the score of powerlifters at their peak performance, thereby giving the development trend of athletes, helping experts to evaluate more correctly about the athletes' abilities before playing.

The main objective of this project is to find estimated deadlift for builders. The dataset is downloaded from Kaggle. The dataset has attributes player Id, name, age, equipment, sex, bodyweight, bestbenchsquat etc.

For model building, regression algorithms such as Linear Regression, Decision tree, Random forest, and XgBoost will be used. We will train and test the data with these algorithms. From this the best model is selected and saved in joblib format. We will also be deploying our model locally using Flask.

1.2. PURPOSE

In recent years, along with the development of economy and society, sports have more people interested in it. Sports help people to increase resistance, reduce work stress and enhance solidarity among people, etc. According to the World Health Organization, each year about 2 million people die from lack of exercise. Lack of exercise will reduce the body's immunity and make adolescents develop abnormally.

Powerlifting is a popular sport. In competition, the impact on powerlifters' performance is mainly due to age, weight, fitness and psychology based on the data powerlifting data in the international competitions; they calculated the score of powerlifters at their peak performance, thereby giving the development trend of athletes, helping experts to evaluate more correctly about the athletes' abilities before playing.

Using advanced machine learning model which is trained using the verified dataset and its various attributes the model can be trained to predict the of powerlifting provided necessary values given. The model can predict the performance with an accuracy of 93% given the fact that the result can be seen in seconds the model is reliable.

Generally, a model is only as good as the data passed into it, and the data preprocessing we do ensure that the model has as accurate a dataset as possible.

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM

Given a dataset containing of various attributes, use the features available in dataset and define a supervised classification algorithm which can identify whether they getting reviews correct predicted reviews or not. The problem is most of the comments from customer reviews about the products are contradicted to their ratings.

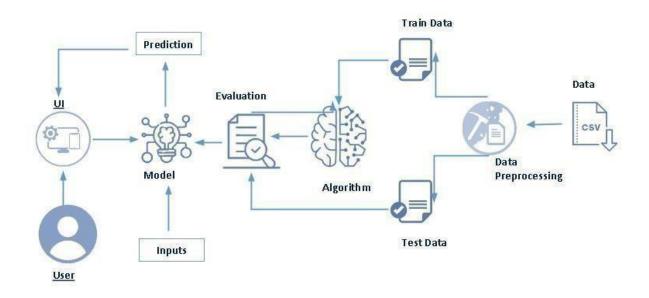
Many customers will post their comments and forgot to rate the product or not engrossed to rate it.

2.2 PROPOSED SOLUTION

- ➤ The main objective of this project is to find estimated deadlift for builders. The dataset is downloaded from Kaggle.
- ➤ The dataset has attributes player Id, name, age, equipment, sex, bodyweight, bestbench squat etc. For model building, regression algorithms such as Linear Regression, Decision tree, Random forest, and XgBoost will be used.
- ➤ We will train and test the data with these algorithms. From this the best model is selected and saved in joblib format.
- We will also be deploying our model locally using Flask.
- ➤ The model can predict the performance with an accuracy of 93% given the fact that the result can be seen in seconds the model is reliable.
- Anyone with prior knowledge of using a web browser can operate the application easily. Generally, a model is only as good as the data passed into it, and the data preprocessing we do ensure that the model has as accurate a dataset as possible.

3.THEORECTICAL ANALYSIS

3.1 Block diagram



3.2 Hardware/Software designing 3.2.1

Hardware Requirements

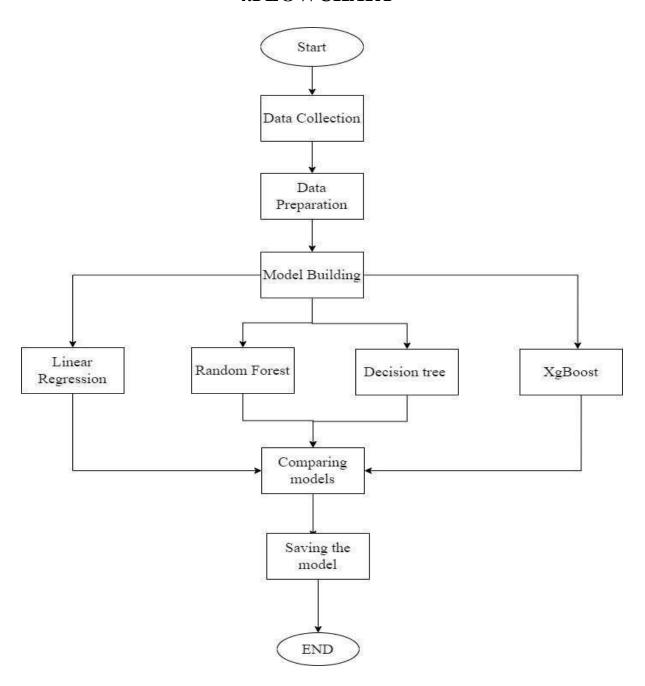
Processor: Intel Core I3 RAM: 4.00 GB OS:

Windows/Linux/MAC

3.2.2 Software Requirements

- 1. Downloading the Visual Studio(vs code)
- 2. Downloading of python packages like
- a. Numpy package
- b. Pandas
- c. Scikit learn
- d. Matplotlib
- e. Seaborn
- f. prettyTable
- g. xgBoost
- h. pickle

4.FLOWCHART



5.RESULT

The dataset downloaded from Kaggle contains attributes playerId, Name, Sex, Equipment ,Age ,Body Weight , Best Squat Kg ,BestDeadliftKg .The web application is used to find the estimated deadlift for builder. After data preprocessing, Linear Regression, Random Forest , Decision Tree, XgBoost are imported for model building. Models are compared to find the best model and saved . Estimated deadlift for builder is calculated using this model.

Fig1: Web Application View:





6.ADVANTAGES AND DISADVANTAGES

This project can be used to find the estimated deadlift for builder Powerlifting is a famous sport. In competition, the impact on powerlifters' performance is mainly due to age, weight, fitness and psychology.

Therefore, the training methods of coaches for powerlifters are extremely important, and studying the factors that influence athletes' performance is an inseparable task in training process.

Based on the powerlifting data in the international competitions; they calculated the score of powerlifters at their peak performance.

Thereby giving the development trend of athletes, helping experts to evaluate more correctly about the athletes' abilities before playing.

DISADVANTAGES

This method is not able to implemented in real time since we need to process the information of whole piece of data.

7.APPLICATIONS

Powerlifting is a popular sport. In competition, the impact on powerlifters' performance is mainly due to age, weight, fitness and psychology.

Therefore, the training methods of coaches for powerlifters are extremely important, and studying the factors that influence athletes' performance is an inseparable task in training process.

Based on the powerlifting data in the international competitions; they calculated the score of powerlifters at their peak performance. Thereby giving the development trend of athletes, helping experts to evaluate more correctly about the athletes' abilities before playing.

8.CONCLUSION

Powerlifting is a popular sport. In competition, the impact on powerlifters' performance is mainly due to

age, weight, fitness and psychology. Therefore, the training methods of coaches for powerlifters are

extremely important, and studying the factors that influence athletes' performance is an inseparable task in

training process.

So by collecting large dataset from international competitions, The project aims on calculating the

estimated deadlift for builders. The factors affecting the performance like bodyweight, age are used to

calculate the deadlift. The calculated the score of powerlifters at their peak performance, giving the

development trend of athletes, helping experts to evaluate more correctly about the athletes' abilities before

playing.

9.FUTURE SCOPE

By calculating the estimated deadlift for builders, we can study their capacity and can improve the

performance.

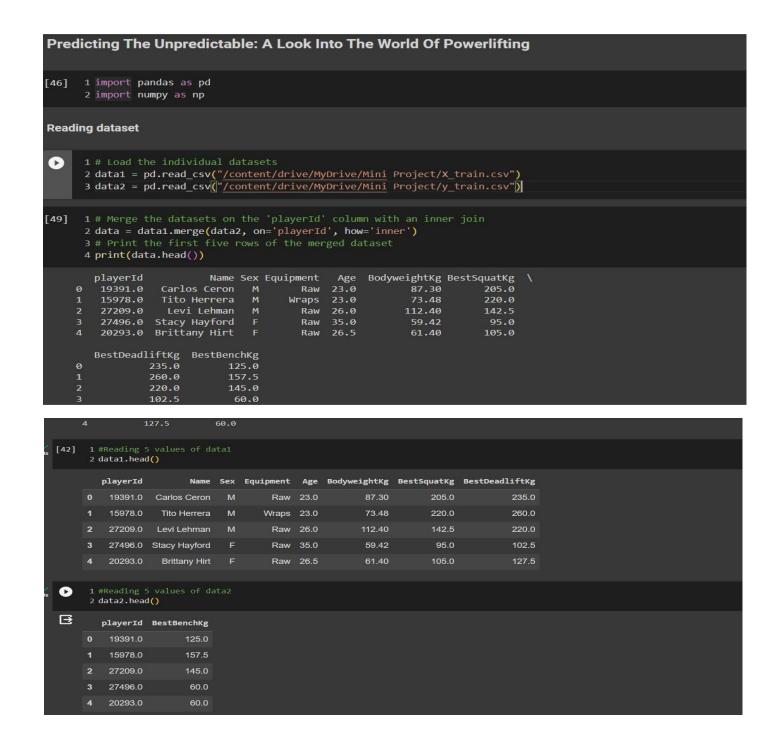
10.BIBILOGRAPHY

1. https://www.kaggle.com/datasets/kukuroo3/powerlifting-benchpress-weight-predict APPENDIX

Source code: # notebook_ codes

7

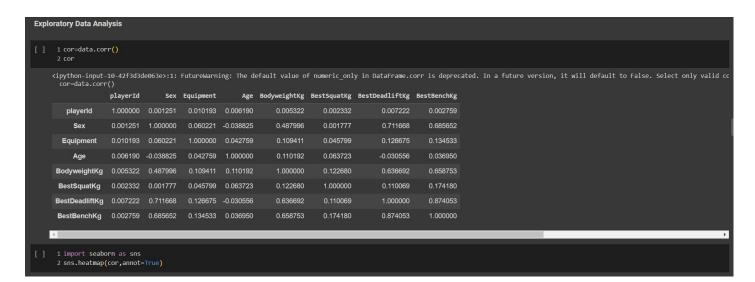
11. APPENDIX (SOURCE CODE) & CODE SNIPPET

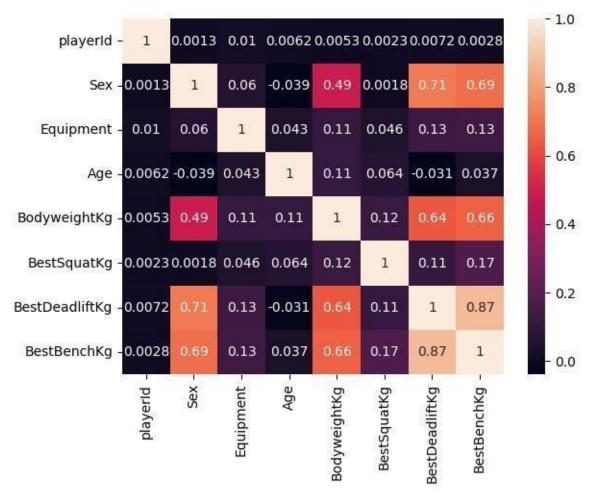


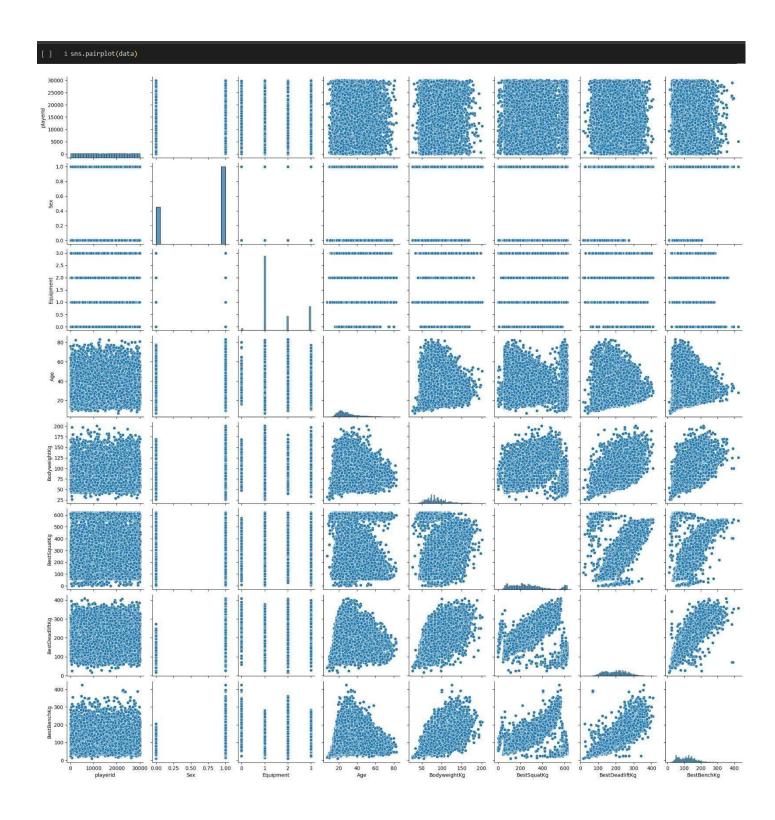
1 data.describe() Age BodyweightKg BestDeadliftKg playerId **BestBenchKg** 18900.00000 18725.00000 18900.000000 18900.00000 18900.000000 count mean 15039.49963 29.66470 85.425557 201.12277 116.963389 std 8674.67268 11.55708 22.959720 62.17163 51.231651 min 0.00000 7.00000 26.130000 18.10000 9.100000 25% 7462.75000 21.50000 67.700000 149.85750 72.500000 50% 15122.50000 26.50000 82.100000 204.12000 115.000000 75% 22540.25000 35.00000 98.970000 247.50000 150.000000 29998.00000 83.00000 201.000000 408.23000 425.000000 max Checking Null Values 1 #To find the null values 2 data.isnull().sum() playerId 0 Name Sex Equipment 0 Age 175 BodyweightKg 0 BestSquatKg 0 BestDeadliftKg a BestBenchKg 0 dtype: int64 1 #To check the datatype of the attributes 2 data.info() <class 'pandas.core.frame.DataFrame'> Int64Index: 18900 entries, 0 to 18899 Data columns (total 9 columns): Column Non-Null Count Dtype # playerId 18900 non-null float64 Name 18900 non-null object Sex 18900 non-null object 18900 non-null Equipment object 18725 non-null Age float64 BodyweightKg 18900 non-null float64 BestSquatKg 18900 non-null object BestDeadliftKg 18900 non-null float64 8 BestBenchKg 18900 no dtypes: float64(5), object(4) 18900 non-null float64 memory usage: 1.4+ MB 1 #filling the values using the mean of that column 2 data['Age'].fillna(data['Age'].mean(),inplace=True) 3 data.isnull().sum() playerId 0 Name a

```
Sex
        Equipment
        Age
        BodyweightKg
                               0
        BestSquatKg
BestDeadliftKg
                               0
                               a
        BestBenchKg
                               0
        dtype: int64
  0
          3 # converting the sex column object type to float type
4 data['Sex'] = data['Sex'].map( { 'M':1, 'F':0} )
          5 # encode the equipment column
          6 from sklearn.preprocessing import LabelEncoder
          7 data['Equipment']= LabelEncoder().fit_transform(data['Equipment'])
8 data['BestSquatKg']=LabelEncoder().fit_transform(data['BestSquatKg'])
          9 data.info()

→ <class 'pandas.core.frame.DataFrame'>
        Int64Index: 18900 entries, 0 to 18899
        Data columns (total 9 columns):
              Column
                                  Non-Null Count Dtype
              playerId
                                  18900 non-null
                                                       float64
                                  18900 non-null
                                                      object
              Name
              Sex
                                  18900 non-null
                                                       int64
                                                      int64
              Equipment
                                  18900 non-null
         4
              Age
                                  18900 non-null
                                                       float64
              BodyweightKg
                                  18900 non-null
                                                       float64
                                 18900 non-null
              BestSquatKg
                                                      int64
         BestDeadliftKg 18900 non-null float64
BestBenchKg 18900 non-null float64
     8 BestBenchKg
    dtypes: float64(5), int64(3), object(1)
    memory usage: 1.4+ MB
[ ] 1 data.describe()
                                                              Age BodyweightKg BestSquatKg BestDeadliftKg BestBenchKg
               playerId
                                  Sex
                                          Equipment
     count 18900.00000 18900.000000 18900.000000 18900.000000 18900.000000 18900.000000
                                                                                                   18900.00000 18900.000000
     mean 15039.49963
                             0.675714
                                           1.524127
                                                        29.664700
                                                                       85.425557
                                                                                    275.607672
                                                                                                     201.12277
                                                                                                                  116.963389
      std
             8674.67268
                              0.468120
                                           0.839712
                                                         11.503448
                                                                       22.959720
                                                                                    157.457053
                                                                                                      62.17163
                                                                                                                   51.231651
      min
                0.00000
                             0.000000
                                           0.000000
                                                         7.000000
                                                                      26.130000
                                                                                     0.000000
                                                                                                      18.10000
                                                                                                                    9.100000
                                                                                                     149.85750
             7462.75000
                                           1.000000
                                                                                    159.000000
                                                                                                                   72.500000
      25%
                             0.000000
                                                        21.500000
                                                                      67.700000
      50%
            15122.50000
                              1.000000
                                           1.000000
                                                        26.500000
                                                                      82.100000
                                                                                    244.000000
                                                                                                     204.12000
                                                                                                                  115.000000
            22540.25000
                                                                                                                  150.000000
      75%
                              1.000000
                                           2.000000
                                                        34.500000
                                                                      98.970000
                                                                                    358.000000
                                                                                                     247.50000
                                                                                                                  425.000000
      max
           29998.00000
                              1.000000
                                           3.000000
                                                        83.000000
                                                                     201.000000
                                                                                    625.000000
                                                                                                     408.23000
      1 data.shape
    (18900, 9)
Exploratory Data Analysis
```







```
Splitting Data into Train and Test
      1 from sklearn.model_selection import train_test_split
0
      2 from sklearn.metrics import mean_squared_error
      4 # Assuming you've already loaded your data as 'data' and performed the merge operation
      6 data.drop(columns=['Name'], axis=1, inplace=True)
      7 y = data['sestDeadlifftkg']
8 x = data.drop(columns=['BestDeadlifftkg'], axis=1)
     10 X_train, X_test, y_train, y_test = train_test_split(x, y, test_size=0.3, random_state=0)
     11 print(X_train.shape)
     12 print(X_test.shape)
    (13230, 7)
(5670, 7)
      1 print(y_train.shape)
      2 print(y_test.shape)
     (13230,)
     (5670,)
    1 from sklearn.linear_model import LinearRegression
2 from sklearn.ensemble import RandomForestRegressor
      3 from sklearn.tree import DecisionTreeRegressor
      4 from sklearn.metrics import mean_squared_error
     5 from sklearn.model_selection import train_test_split
     6 import xgboost as xgb
     7 X train
            playerId Sex Equipment Age BodyweightKg BestSquatKg BestBenchKg
     6335
              7623.0
                                    1 37.0
                                                   107.37
                                                                                72.5
     844
             25912.0
                                    3 26.0
                                                   130.00
                                                                   518
                                                                                200.0
     2421
             23278.0
                                    1 28.0
                                                   127.20
                                                                   240
                                                                                155.0
    17006
             29880.0
                                    1 22.5
                                                    82.43
                                                                   310
                                                                                150.0
     1875
             13172.0
                                    1 20.5
                                                   117.77
                                                                   438
                                                                                202.5
     9225
                                                                                202.5
             20516.0
                                    1 30.0
                                                   109.72
    13123
             23596.0
                                    1 21.5
                                                    92.30
                                                                   298
                                                                                130.0
     9845
             18812.0
                                    1 28.0
                                                    84.91
                                                                    168
    10799
             16195.0
                                    1 20.5
                                                                   203
                                                                                102.5
                                                    81.60
                                                    74.75
     2732
             28654.0
                                    0 37.0
                                                                                102.5
    13230 rows × 7 columns
     1 y_train
```

```
352.5
              210.0
     17006
              262.5
     1875
              310.0
              227.5
     9845
              165.5
     10799
              217.5
              145.0
     Name: BestDeadliftKg, Length: 13230, dtype: float64
[ ] 1 lr=LinearRegression()
      2 lr.fit(X_train, y_train)
      3 y_pred1 = lr.predict(X_test)
      1 mse=mean_squared_error(y_test, y_pred1)
      2 rmse=np.sqrt(mse)
      3 print("RMSE value: {:.2f}".format(rmse))
      4 print("Training accuracy for Linear Regression: {:.2f}".format(lr.score(X_train,y_train)*100),'%')
      5 print("Testing accuracy for Linear Regression: {:.2f}".format(lr.score(X_test,y_test)*100),'%')
     RMSE value: 27.87
     Training accuracy for Linear Regression: 79.56 %
     Testing accuracy for Linear Regression: 79.96 %
      1 rf=RandomForestRegressor()
      2 rf.fit(X_train,y_train)
     2 rf.fit(X_train,y_train)
     3 y_pred2=rf.predict(X_test)
 1 mse=mean_squared_error(y_test,y_pred2)
     2 rmse=np.sqrt(mse)
     3 print("RMSE value: {:.2f}".format(rmse))
     4 print("Training accuracy for Random Forest: {:.2f}".format(rf.score(X_train,y_train)*100),'%')
     5 print("Testing accuracy for Random Forest: {:.2f}".format(rf.score(X_test,y_test)*100),'%')
    RMSE value: 21.84
    Training accuracy for Random Forest: 98.29 %
    Testing accuracy for Random Forest: 87.70 %
    1 dt= DecisionTreeRegressor()
     2 dt.fit(X_train,y_train)
     3 y_pred3=dt.predict(X_test)
[ ] 1 mse=mean_squared_error(y_test,y_pred3)
     2 rmse=np.sqrt(mse)
     3 print("RMSE value: {:.2f}".format(rmse))
     4 print("Training accuracy for Decision Tree: {:.2f}".format(rf.score(X_train,y_train)*100),'%')
     5 print("Testing accuracy for Decision tree: {:.2f}".format(rf.score(X_test,y_test)*100),'%')
    RMSE value: 29.80
    Training accuracy for Decision Tree: 98.29 %
    Testing accuracy for Decision tree: 87.70 %
     1 xg_reg=xgb.XGBRegressor(n_estimators=50,max_depth=2,learning_rate=0.5)
```

```
2 xg_reg.fit(X_train,y_train)
       3 y_pred4=xg_reg.predict(X_test)
0
      1 mse=mean_squared_error(y_test,y_pred4)
       2 rmse=np.sqrt(mse)
       3 print("RMSE value: {:.2f}".format(rmse))
      4 print("Training accuracy for XgBoost Model: {:.2f}".format(xg_reg.score(X_train,y_train)*100),'%')
5 print("Testing accuracy for XgBoost Model: {:.2f}".format(xg_reg.score(X_test,y_test)*100),'%')
RMSE value: 21.40
     Training accuracy for XgBoost Model: 88.39 %
Testing accuracy for XgBoost Model: 88.19 %
Comparing models
  ] 1 from prettytable import PrettyTable
       2 tb=PrettyTable()
      3 tb.field_names={"Model","RMSE","Training Accuracy","Testing Accuracy"}
4 tb.add_row(["Linear Regression",27.87,79.56,79.96])
      5 tb.add_row(["Random Forest",21.76,98.33,87.79])
6 tb.add_row(["Decision Tree",29.94,98.33,87.79])
       7 tb.add_row(["XbBoost",21.71,88.42,87.84])
    [ ] 1 print(tb)
                                    | Training Accuracy | Testing Accuracy | Model |
          | Linear Regression |
                                              27.87
                                                                       79.56
                                                                                         79.96
               Random Forest
                                              21.76
                                                                       98.33
                                                                                         87.79
              Decision Tree
                                              29.94
                                                                       98.33
                                                                                       87.79
                  XbBoost
                                              21.71
                                                                       88.42
                                                                                       87.84
         1 from sklearn.model_selection import cross_val_score
           2 cv=cross_val_score(rf,x,y,cv=5)
           3 np.mean(cv)
          0.8802102845010074
   Saving the model
           1 import joblib
          1 model = xg_reg # Replace with your actual trained model
           2 joblib.dump(model, 'xg_model.joblib')
          ['xg_model.joblib']
```

```
    app (1).py 
    ⇔ error.html

<sub>C</sub>

∨ OPEN EDITORS

                                      app (1759) 7 ...

import numpy as np

import pandas as pd

from joblib import load

from flask import Flask, render_template, request
            error.html templ...
      ∨ PROJECT
                                            app = Flask(__name__)
model = load("xg_model.joblib")

∨ templates

         🖾 bg (1).jpeg
         download (1).png
                                            @app.route('/')
                                           def home():
         o error.html
                                                return render_template('index.html')
         images (1).jpeg
                                             @app.route('/predict', methods=["POST", "GET"])
         <> index.html
                                             def predict():
                                                  if request.method == 'POST':
        ≡ xg_model.joblib
                                                           input_features = [float(x) for x in request.form.values()]
                                                            feature_names = ['playerId', 'Sex', 'Equipment', 'Age', 'BodyweightKg', 'BestSquatKg', 'BestBenchKg']
data = pd.DataFrame([input_features], columns=feature_names)
                                                            prediction = model.predict(data)
                                                            print("Prediction:", prediction)
text = "Estimated Deadlift for the builder is:"
                                                            return render_template("index.html", prediction_text=text + str(prediction))
                                                            error_message = "An error occurred: " + str(e)
return render_template("error.html", error_message=error_message)
                                             if __name__ == '__main__':
app.debug = True
> outline
      > TIMELINE
                                                  app.run()
```

```
File Edit Selection View Go Run Terminal Help
Ф
                              ··· o index.html × app (1).py
                                        templates > ◇ index.html > ...

1 | k!DOCTYPE | html > ...
2 < html >
          X ♦ index.html templ...

♣ app (1).py
                                                       <meta charset="UTF-8">
  <title>PowerLifting Predictor</title>
       ∨ PROJECT
       > Static
                                                                 by {
   background-image: url('https://as2.ftcdn.net/v2/jpg/01/13/65/71/1000_F_113657105_Bktota7BzQ5cEUcZb410D4qSD2Sw08P2.jpg');
   background-repeat: no-repeat;
   background-attachment: fixed;
   background-size: 100% 100%;
         bg (1).jpeg
          gym (1).jpg
         images (1).jpeg
                                                              .prediction-box {
                                                                  background-color: ■rgba(255, 255, 255, 0.7);
border: 2px solid □#000;
border-radius: 10px;
         app (1).py
                                                                  border-radius: topx,
padding: 20px;
text-align: center;
margin: 0 auto;
max-width: 400px;
box-shadow: 0 0 10px □rgba(0, 0, 0, 0.5);
                                                  <body text="black">
<div class="login">
    <center><fifthing Predictor</h1></center>
<center>
                                                              <!-- Your form fields here -->
<label>Player Id:</label><br/><input type="number" min="0" name="playerId" placeholder="Player Id"><br/><input type="number" min="0" name="playerId" placeholder="Player Id"><br/><br/>
                                                            <label>Equipment:/label><br/><input type="number" min="0" max="3" name="Equipment" placeholder="Equipment" required="required"><br/>br>
                                                                   <label>Age:</label><br><input type="number" name="Age" placeholder="Age" required="required"><br>
      > OUTLINE
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