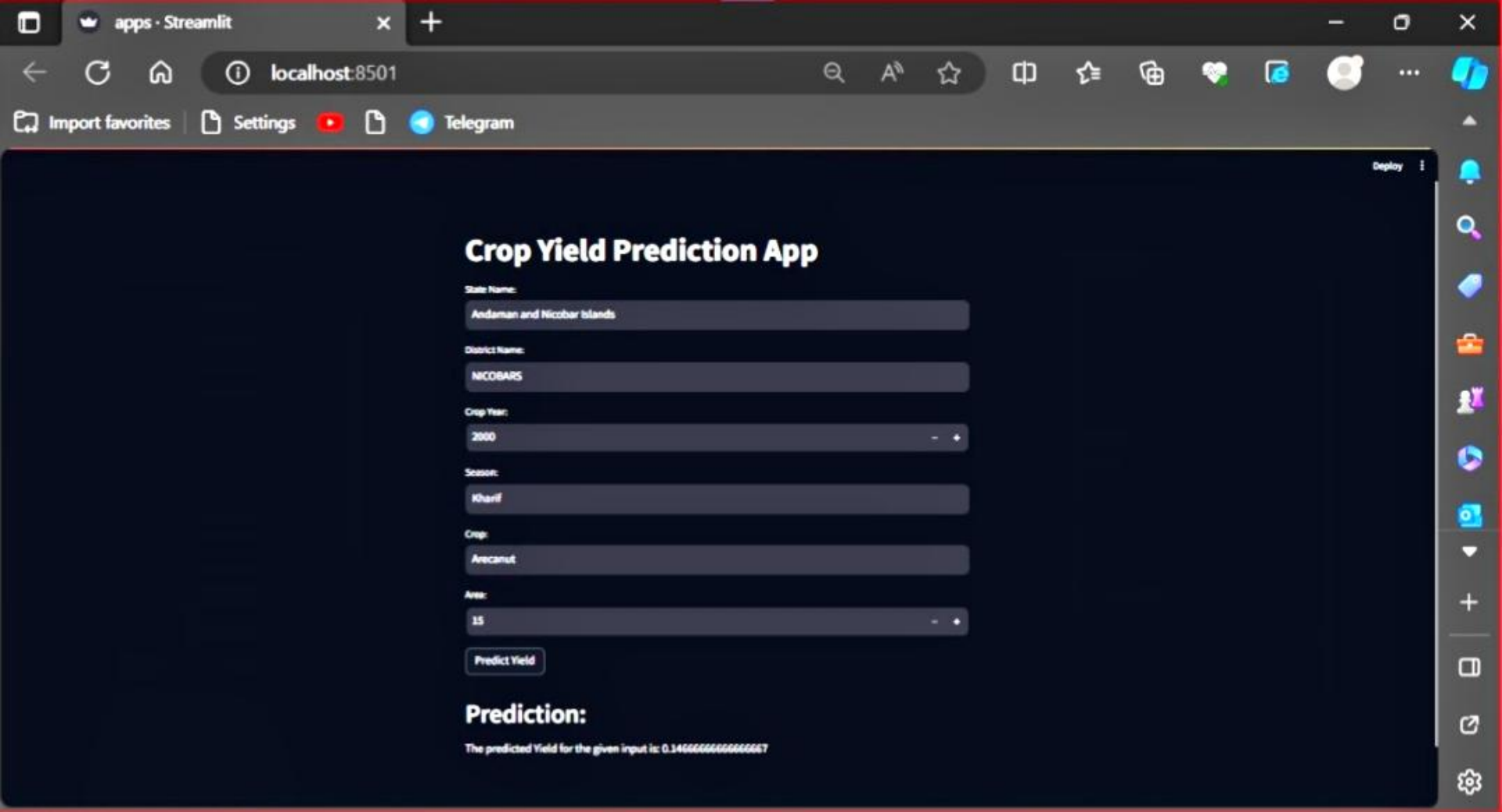
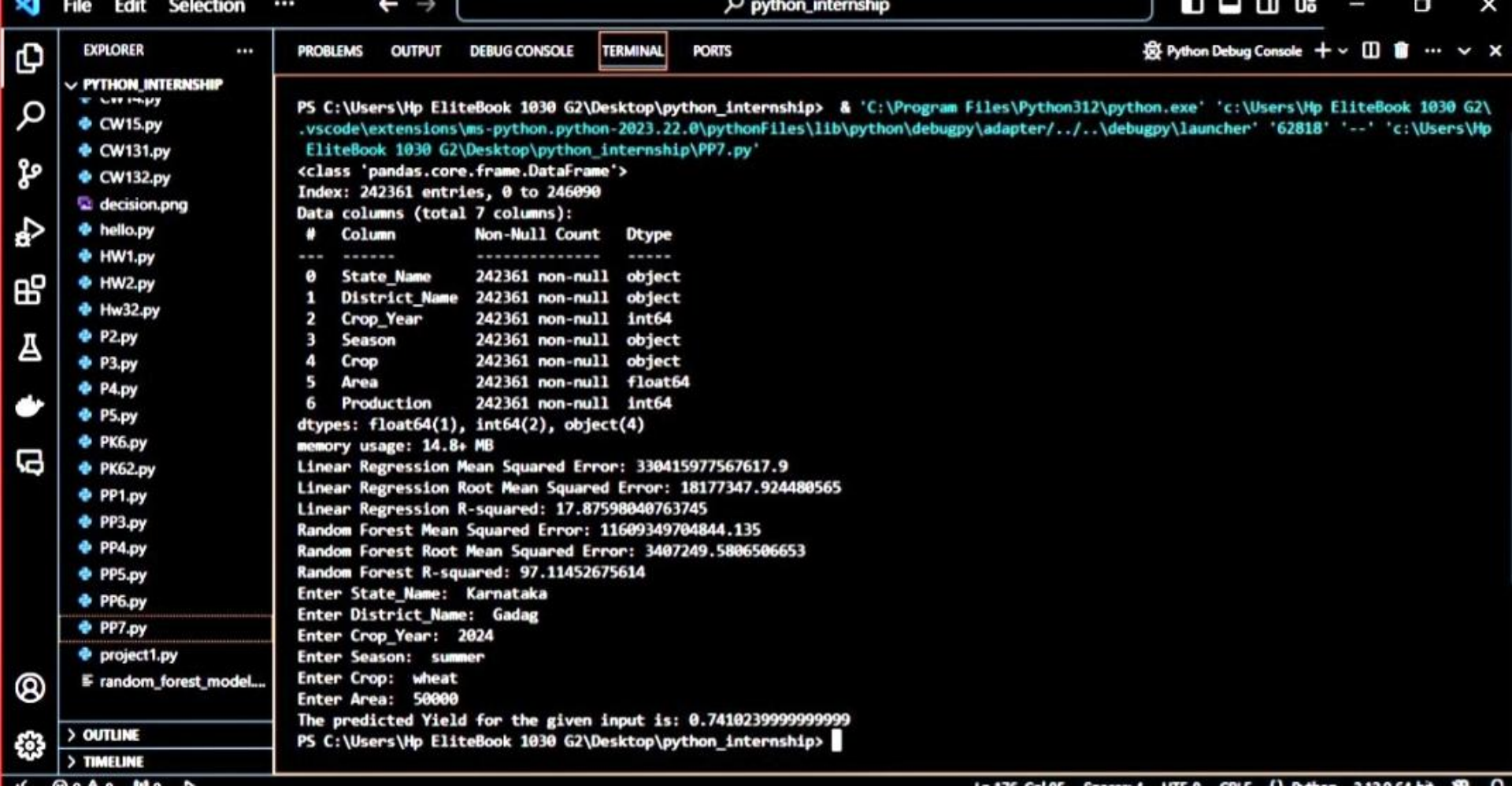

apps · Streamlit
localhost:8501
Import favorites
Settings
Telegram
Deploy
Crop Yield Prediction App
State Name:
Andaman and Nicobar Islands
District Name:
NICOBARS
Crop Year:
2000
Season:
Kharif
Crop:
Arecanut
Area:
15
Predict Yield
Prediction:
The predicted Yield for the given input is: 0.14666666666666667


File Edit Selection
python_internship
EXPLORER
PYTHON_INTERNSHIP
CW15.py
CW131.py
CW132.py
decision.png
hello.py
HW1.py
HW2.py
Hw32.py
P2.py
P3.py
P4.py
P5.py
PK6.py
PK62.py
PP1.py
PP3.py
PP4.py
PP5.py
PP6.py
PP7.py
project1.py
random_forest_model....
OUTLINE
TIMELINE
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python Debug Console
PS C:\Users\Hp EliteBook 1030 G2\Desktop\python_internship> & 'C:\Program Files\Python312\python.exe' 'c:\Users\Hp EliteBook 1030 G2\.vscode\extensions\ms-python.python-2023.22.0\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '62818' '--' 'c:\Users\Hp EliteBook 1030 G2\Desktop\python_internship\PP7.py'
<class 'pandas.core.frame.DataFrame'>
Index: 242361 entries, 0 to 246090
Data columns (total 7 columns):
Column Non-Null Count Dtype
--- ------ -------------- -----
0 State_Name 242361 non-null object
1 District_Name 242361 non-null object
2 Crop_Year 242361 non-null int64
3 Season 242361 non-null object
4 Crop 242361 non-null object
5 Area 242361 non-null float64
6 Production 242361 non-null int64
dtypes: float64(1), int64(2), object(4)
memory usage: 14.8+ MB
Linear Regression Mean Squared Error: 330415977567617.9
Linear Regression Root Mean Squared Error: 18177347.924480565
Linear Regression R-squared: 17.87598040763745
Random Forest Mean Squared Error: 11609349704844.135
Random Forest Root Mean Squared Error: 3407249.5806506653
Random Forest R-squared: 97.11452675614
Enter State_Name: Karnataka
Enter District_Name: Gadag
Enter Crop_Year: 2024
Enter Season: summer
Enter Crop: wheat
Enter Area: 50000
The predicted Yield for the given input is: 0.7410239999999999
PS C:\Users\Hp EliteBook 1030 G2\Desktop\python_internship>

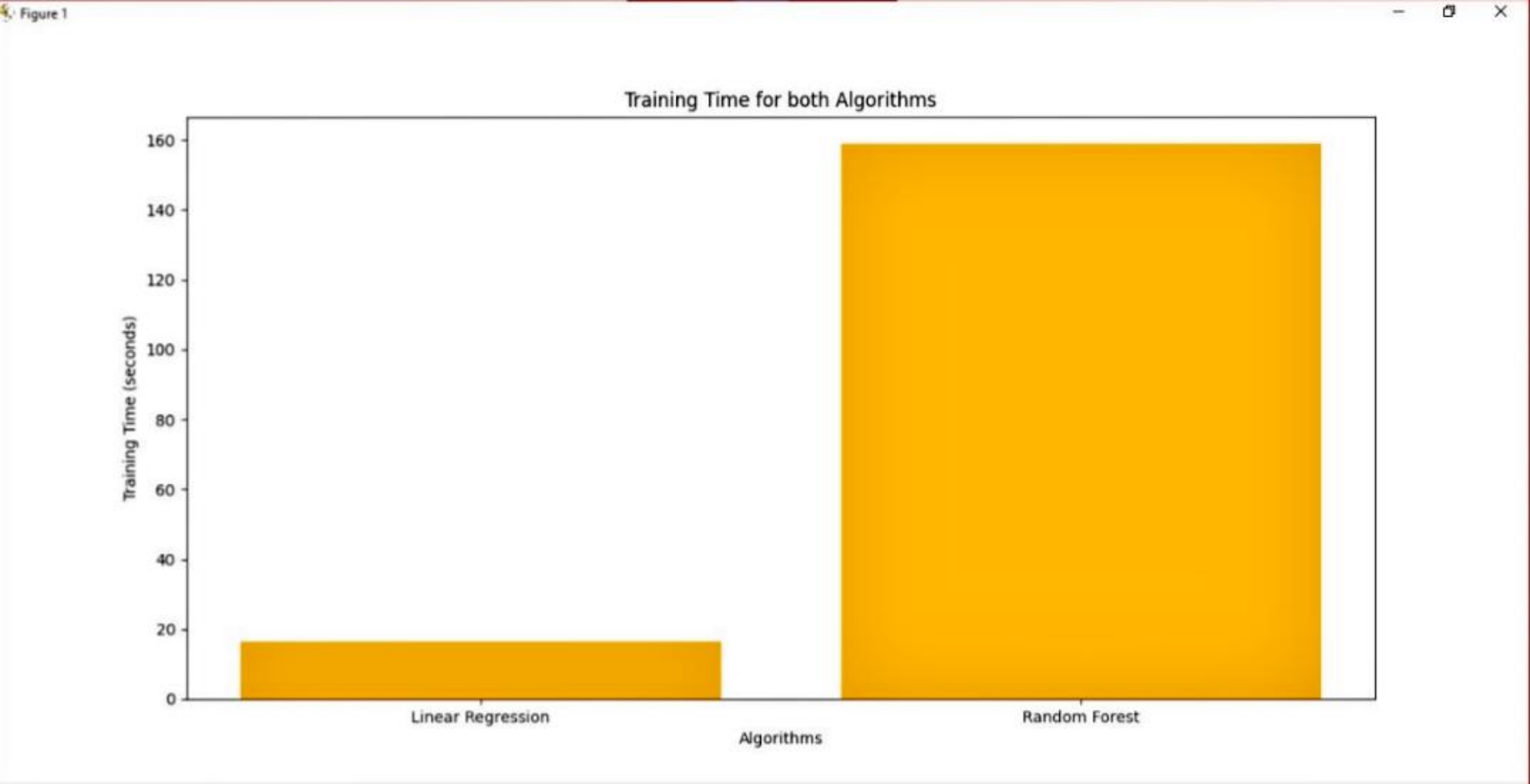


Figure 1
Training Time for both Algorithms
Training Time (seconds)
0
20
40
60
80
100
120
140
160
Linear Regression
Random Forest
Algorithms

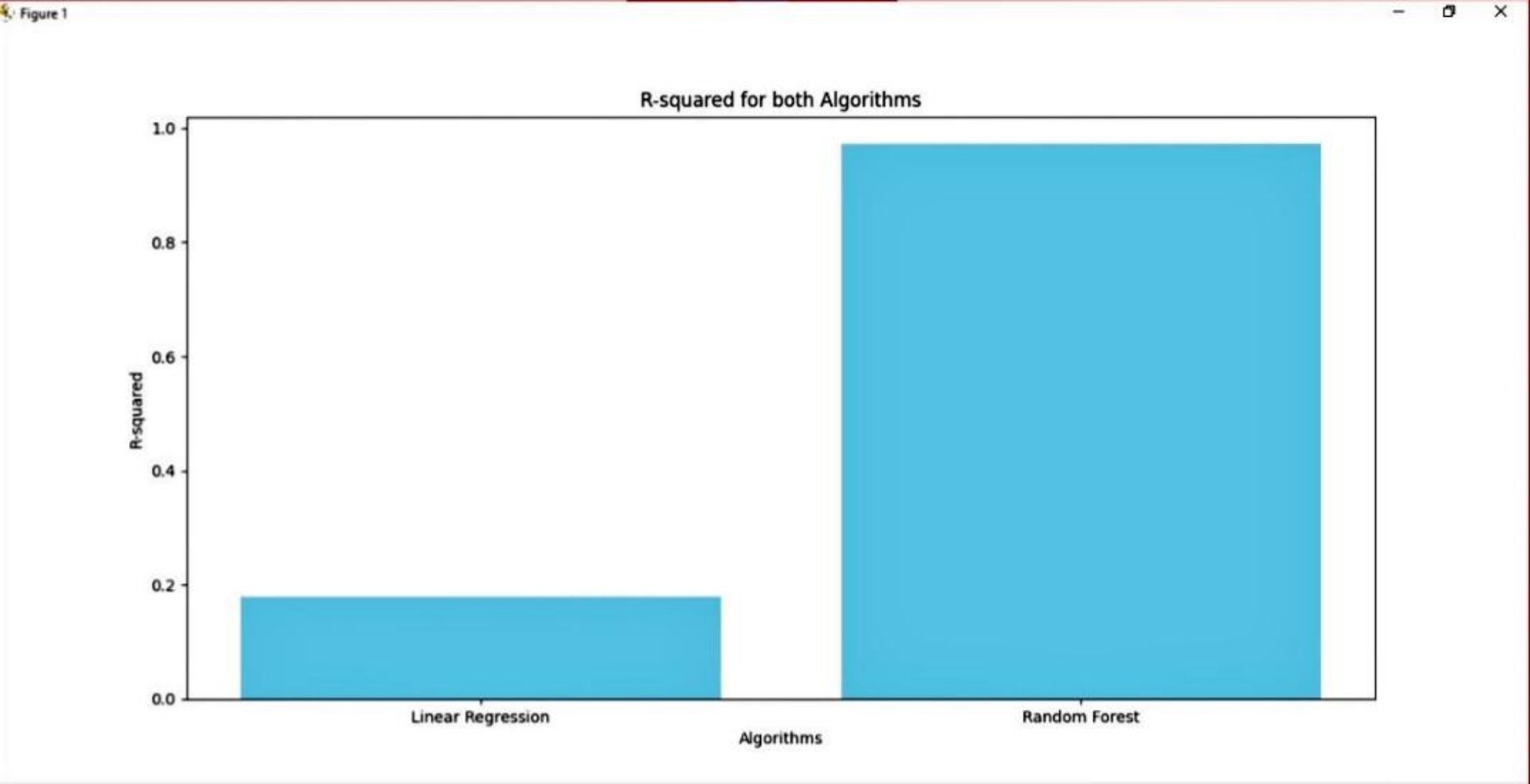


Figure 1
R-squared for both Algorithms
1.0
0.8
0.6
0.4
0.2
0.0
R-squared
Linear Regression
Random Forest
Algorithms