gradient-descent

October 16, 2023

```python
[1]: import pandas as pd # data frame library
     import numpy as np
     import seaborn as sns # data visialization library
     import matplotlib.pyplot as plt

     df=pd.read_csv('Height-Weight Data.csv')
     df.head(5)
```

```
[1]:       Height      Weight
     0  73.847017  241.893563
     1  68.781904  162.310473
     2  74.110105  212.740856
     3  71.730978  220.042470
     4  69.881796  206.349801
```

```python
[2]: df.shape
```

```
[2]: (3501, 2)
```

```python
[3]: X=df['Height']
     y=df['Weight']
```

```python
[4]: X.head(3)
```

```
[4]: 0    73.847017
     1    68.781904
     2    74.110105
     Name: Height, dtype: float64
```

```python
[5]: y.head(3)
```

```
[5]: 0    241.893563
     1    162.310473
     2    212.740856
     Name: Weight, dtype: float64
```

```python
[6]: n=len(X)
     n
```

`[6]:` 3501

`[7]:`
```python
df.isna().sum()
```

`[7]:`
```
Height    0
Weight    0
dtype: int64
```

GRADENT DESCENT for Linear Regression

`[24]:`
```python
m = c =0
L=.0001
iterations=10000
n=len(X) # total no of sample of X

for a in range(iterations):
    y_pred = m*X + c
    deri_m = (-2/n)*sum(X*(y - y_pred))
    deri_c = (-2/n)*sum(y - y_pred)


    cost = (1/n) * sum([val**2 for val in (y-y_pred)])

    #calculate the value of  m and c
    m= m - (L * deri_m)
    c= c - (L * deri_c)
    print ("m {}, b {}, cost {} iteration {}".format(m,c,cost, a))
```

```
m 2.5897468877894476, b 0.037378251595892566, cost 35324.363808871974 iteration
0
m 2.707044448015893, b 0.038997876893657316, cost 264.2757748164518 iteration 1
m 2.7123582259954127, b 0.03899789926807571, cost 192.35260456643968 iteration 2
m 2.712599961710048, b 0.0389245655591103, cost 192.20500074297607 iteration 3
m 2.7126119711888, b 0.03884790938382877, cost 192.20463905002543 iteration 4
m 2.712613575757172, b 0.038771102750343144, cost 192.20457941317787 iteration 5
m 2.7126147090592156, b 0.038694289327306904, cost 192.20452039601517 iteration
6
m 2.7126158210159956, b 0.03861747562185409, cost 192.20446138016442 iteration 7
m 2.712616932005629, b 0.03854066192871003, cost 192.20440236435635 iteration 8
m 2.712618042951094, b 0.038463848261223614, cost 192.2043433485893 iteration 9
m 2.7126191538941966, b 0.03838703461999945, cost 192.20428433286222 iteration
10
m 2.7126202648368287, b 0.03831022100506489, cost 192.2042253171752 iteration 11
m 2.7126213757790762, b 0.038233407416421186, cost 192.20416630152943 iteration
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m 2.7126224867209436, b 0.03815659385406838, cost 192.20410728592336 iteration
13
m 2.712623597662431, b 0.03807978031800646, cost 192.2040482703579 iteration 14
m 2.7126247086035375, b 0.03800296680823542, cost 192.20398925483272 iteration
```

2

15
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m 2.7126335961187036, b 0.03738845967653773, cost 192.2035171320862 iteration 23
m 2.712634707056388, b 0.037311646403384205, cost 192.20345811692573 iteration
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m 2.7126358179936925, b 0.03723483315652148, cost 192.20339910180465 iteration
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m 2.7126369289306167, b 0.037158019935949534, cost 192.20334008672418 iteration
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m 2.723689662980871, b -0.7270582735634651, cost 191.61719762989213 iteration 9992

m 2.723690770134408, b -0.7271348251903166, cost 191.61713901608874 iteration 9993

m 2.7236918772875667, b -0.7272113767909669, cost 191.61708040232503 iteration 9994

m 2.723692984440346, b -0.727287928365416, cost 191.617021788601 iteration 9995

m 2.723694091592747, b -0.7273644799136638, cost 191.61696317491797 iteration 9996

m 2.7236951987447684, b -0.7274410314357105, cost 191.61690456127573 iteration 9997

m 2.723696305896411, b -0.7275175829315559, cost 191.61684594767175 iteration 9998

m 2.7236974130476748, b -0.7275941344012001, cost 191.61678733410866 iteration 9999

```
[25]: #Last iteration
      print (m,c)
```

2.7236974130476748 -0.7275941344012001

value of y_pred_01 for 1st Iteration

```
[26]: m1= 2.5897468877894476
      c1=0.037378251595892566
      X1= 73.847017
      y_actual_01 = 241.893563
      y_pred_01 = m1*X1 + c1
      y_pred_01 #191.28 as 1st iteration will not provide of good cost estimation
```

[26]: 191.28246069988032

Predicted Value of y at Global Minima

```
[27]: m2=2.713717690401167
      c2=-0.037568787153150304
      X2= 73.847017
      y_actual_02 = 241.893563
      y_pred_02 = m2*X2 + c2
      y_pred_02 #200.36 using the value of m and c for Global Minima
```

[27]: 200.36238762910253

```
[28]: m2=2.713717690401167
      c2=-0.037568787153150304
      X3= 69.881796
      y_actual_03 = 206.349801
      y_pred_03 = m2*X2 + c2
      y_pred_03 #200.36 using the value of m and c for Global Minima
```

[28]: 200.36238762910253

Prepare Model For Linear Regression

```
[29]: df.head(3)
```

```
[29]:       Height       Weight
      0   73.847017   241.893563
      1   68.781904   162.310473
      2   74.110105   212.740856
```

```
[30]: from sklearn.linear_model import LinearRegression
      reg = LinearRegression()
```

```
[31]: reg.fit(df[['Height']],df['Weight'])
```

[31]: LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None, normalize=False)

```
[32]: X_test = 73.847017
      y_pred_lr = reg.predict([[X_test]])
```

```
[33]: #predicted value of y
      y_pred_lr
```

[33]: array([215.62645694])

```
[34]: #value Coefficient or Slope
      m_lr= reg.coef_
```
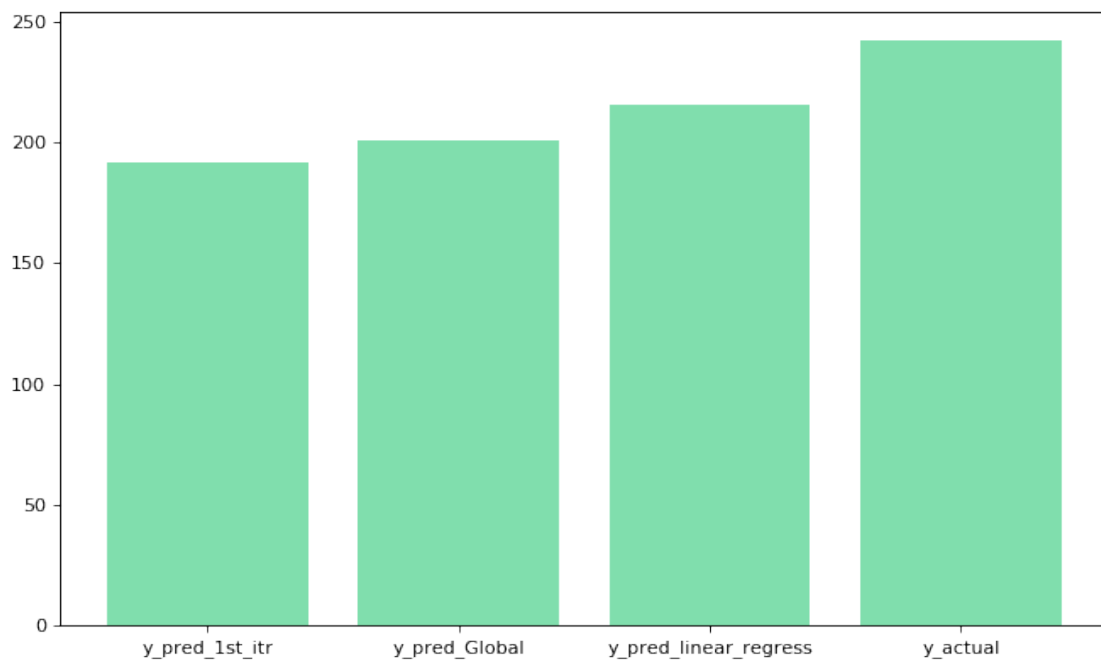
```
m_lr
```

[34]: `array([5.95843786])`

[35]:
```
#value y intercept
c_lr= reg.intercept_
c_lr
```

[35]: `-224.3864053713131`

y value Prediction comparision for different measurements

[36]:
```
from matplotlib.pyplot import figure
figure(figsize=(10, 6), dpi=80)
y_prediction= ['y_pred_1st_itr', 'y_pred_Global', 'y_pred_linear_regress',␣
  ↪'y_actual']
y_value=[y_pred_01, y_pred_02, y_pred_lr, y_actual_02 ]
plt.bar(y_prediction, y_value, color='#80dead')
```

[36]: `<BarContainer object of 4 artists>`

MSE for Global Minima VS Linear Model

[37]:
```
#MSE For Global Minima
MSE_G = (1/n)*(y_actual_02-y_pred_02)**2
MSE_G=MSE_G*100
```
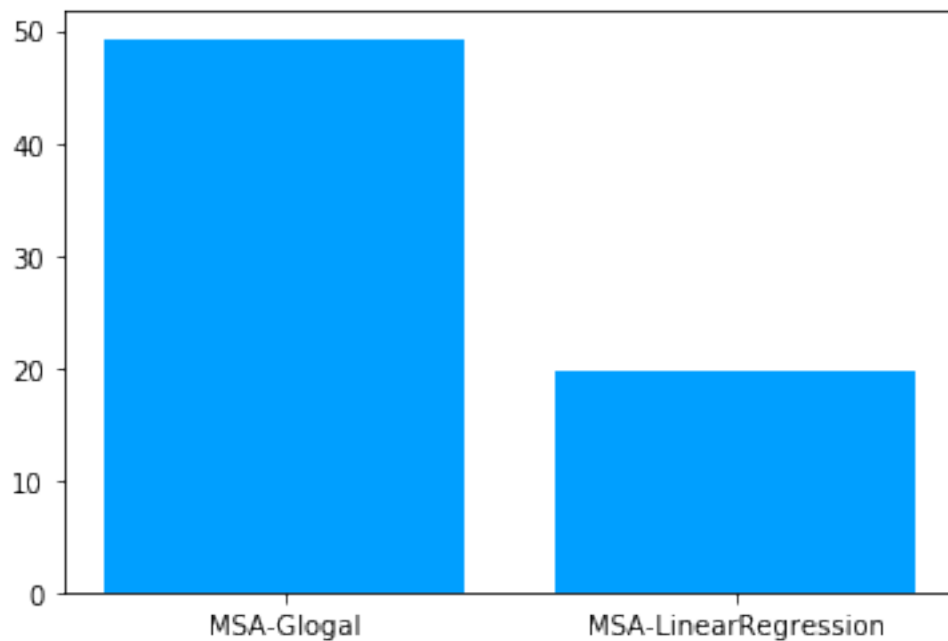
```
MSE_G
```

[37]: 49.26702449837877

[38]:
```python
#MSE For Linear Model
MSE_lr = (1/n)*(y_actual_02-y_pred_lr)**2
MSE_lr=MSE_lr*100
MSE_lr
```

[38]: array([19.70753673])

[39]:
```python
MSE= ['MSA-Glogal', 'MSA-LinearRegression']
value=[MSE_G, MSE_lr]
plt.bar(MSE, value, color='#009fff')
```

[39]: <BarContainer object of 2 artists>

[ ]: