

lab 5

August 21, 2024

```
[1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from sklearn import preprocessing, svm
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression

data = {
    "mother": [58.0, 62.0, 60.0, 64.0, 67.0, 70.0],
    "daughter": [60.0, 60.0, 58.0, 60.0, 70.0, 72.0]
}

df = pd.DataFrame(data)

df.to_csv(r"/home/student/Desktop/220962410_UditaB2/lab 5/q1_data.
↪ csv", index=False)

df
```

```
[1]:
```

	mother	daughter
0	58.0	60.0
1	62.0	60.0
2	60.0	58.0
3	64.0	60.0
4	67.0	70.0
5	70.0	72.0

```
[18]: # np.random.seed(1)

x=df[["mother"]].values
y=df[["daughter"]].values

x_b=np.c_[np.ones((x.shape[0],1)),x]
theta=np.random.randn(2,1)
learning_rate=0.0001
epochs=1000
m=len(x)
y=y.reshape(-1,1)
```

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errors=[]

x_b

for epoch in range(epochs):
    for i in range(m):
        rand_ind=np.random.randint(m)
        xi=x_b[rand_ind:rand_ind+1]
        yi=y[rand_ind:rand_ind+1]

        prediction=xi.dot(theta)

        error=prediction-yi
        errors.append(error)

        gradient=xi.T.dot(error)
        theta=theta-learning_rate*gradient

    print(f"int: {theta[0]}, slope: {theta[1]}")

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int: [-0.37022471], slope: [1.01667896]
int: [-0.36999943], slope: [1.03177228]
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int: [-0.37089376], slope: [0.97466788]

int: [-0.37089961], slope: [0.97430509]
int: [-0.37109807], slope: [0.96160348]
int: [-0.37063826], slope: [0.98827244]
int: [-0.3703191], slope: [1.01061341]
int: [-0.37015637], slope: [1.02200507]
int: [-0.36996678], slope: [1.03470704]
int: [-0.36993109], slope: [1.0367774]
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int: [-0.3699686], slope: [1.03474022]
int: [-0.36997478], slope: [1.03430729]
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int: [-0.37080918], slope: [1.01468177]
int: [-0.37106019], slope: [0.99962118]
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int: [-0.37150438], slope: [0.97146138]
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int: [-0.37040318], slope: [1.03907222]
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int: [-0.37164353], slope: [0.9645189]
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int: [-0.37103976], slope: [1.01052669]
int: [-0.37147002], slope: [0.98298961]
int: [-0.37101891], slope: [1.01321442]
int: [-0.37126109], slope: [0.99868334]
int: [-0.37141606], slope: [0.98938491]
int: [-0.37110462], slope: [1.01118621]
int: [-0.37133462], slope: [0.99738581]
int: [-0.37097997], slope: [1.02114726]
int: [-0.37147822], slope: [0.98925961]
int: [-0.37117878], slope: [1.00662725]
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int: [-0.37114561], slope: [1.01039409]
int: [-0.37137086], slope: [0.99687909]
int: [-0.371515], slope: [0.98823084]

```

int: [-0.37180252], slope: [0.96982918]
int: [-0.3712632], slope: [1.00596394]
int: [-0.37106066], slope: [1.017711]
int: [-0.37084222], slope: [1.03234664]
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int: [-0.37120666], slope: [1.01588265]
int: [-0.37167119], slope: [0.98615284]
int: [-0.37175094], slope: [0.98136784]

```

```

[19]: error_array=np.array(errors)
      error_flat=error_array.flatten()
      error_flat

```

```

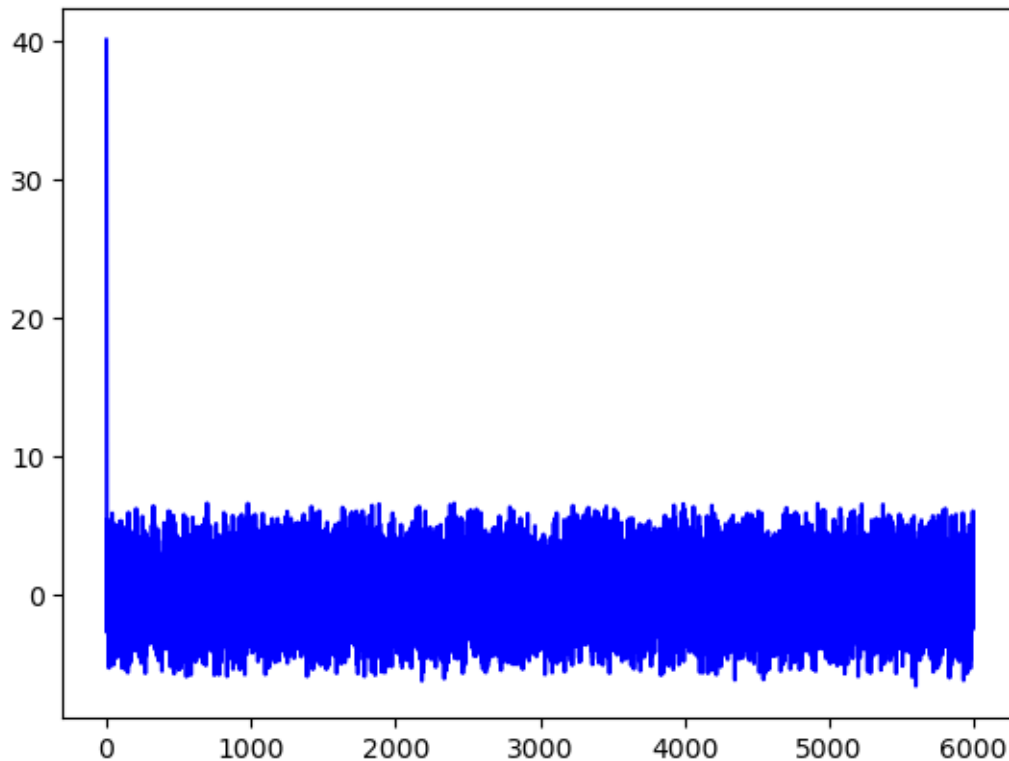
[19]: array([40.12096175, 19.56014826, 14.91850129, ..., -2.46993778,
            4.64528283,  0.7974991 ])

```

```

[20]: plt.plot(range(epochs*m),error_flat,color="blue")
      plt.show()

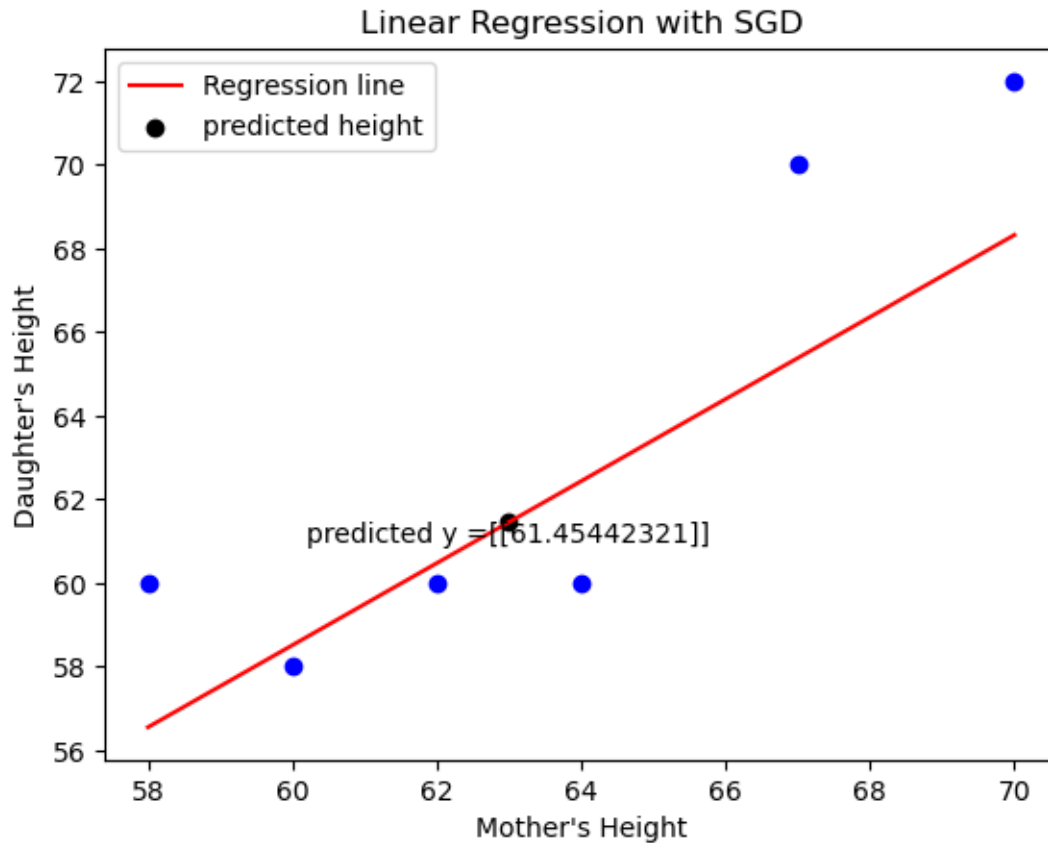
```



```
[21]: plt.scatter(x,y,color="blue")
x_range = np.linspace(min(x), max(x), 100).reshape(-1, 1)
X_range_b = np.c_[np.ones((x_range.shape[0], 1)), x_range]
y_pred1 = X_range_b.dot(theta)

x_point=63
y_point=np.c_[1,x_point].dot(theta)

plt.plot(x_range, y_pred1, color='red', label='Regression line')
plt.scatter(x_point,y_point,color="black",label="predicted height")
plt.text(x_point, y_point, f'predicted y ={y_point}', fontsize=10,
        verticalalignment='top', horizontalalignment='center', color='black')
plt.xlabel('Mother\'s Height')
plt.ylabel('Daughter\'s Height')
plt.title('Linear Regression with SGD')
plt.legend()
plt.show()
```

```
[46]: X_train, X_test, y_train, y_test = train_test_split(x, y, test_size = 0.25)
      regr = LinearRegression()
```

```
      regr.fit(X_train, y_train)
      print(regr.score(X_test, y_test))
      print(regr.coef_)
      print(regr.intercept_)
```

```
-4.90530612244899
[[1.08571429]]
[-4.8]
```

```
[ ]: y_pred2 = regr.predict(x)
      plt.scatter(x, y, color = 'b')
      plt.plot(x, y_pred2, color = 'k')

      plt.show()
```

```
[ ]: y_pred1=x_b.dot(theta)
      mse=np.mean((y-y_pred1)**2)
```

```
rmse=np.sqrt(mse)
print({mse}, {rmse})
```

```
[ ]: mse=np.mean((y-y_pred2)**2)
      rmse=np.sqrt(mse)
      print({mse}, {rmse})
```

```
[ ]: data={
      "hours": [1,2,3,4,5,6,7,8],
      "pass": [0,0,0,0,1,1,1,1]
    }

    df=pd.DataFrame(data)

    df.to_csv(r"/home/student/Desktop/220962410_UditaB2/lab 5/q2_data.
    ↪ csv",index=False)

    df
```

```
[ ]: def sigmoid(z):
      return 1/(1+np.exp(-z))
```