Program No:5

Date:08-12-2021

Aim: Program to implement linear and multiple regression techniques using any standard dataset available in the public domain

Program code

import numpy as np

from sklearn.linear\_model import LinearRegression

x=np.array([5,15,25,35,45,55]).reshape((-1,1))

y=np.array([5,20,14,32,22,38])

print(x)

print(y)

model=LinearRegression()

model.fit(x,y)

r\_sq=model.score(x,y)

print("coeficient of determinator",r\_sq)

print("intersect",model.coef\_)

y\_pred=model.predict(x)

print("predicted response",y\_pred)

OUTPUT





