

Safari 파일 편집 보기 방문 기록 책갈피 개발자용 원도우 도움말

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MachineLearingAssignment/MachineLearningAssgignment02.ipynb at master · RyuJaesang/MachineLearingAss...

In [0]: #Define update function
learningRate = 0.001

def updateTheta():
 updateTheta0 = theta0 - (learningRate*jPrimeTheta0())
 updateTheta1 = theta1 - (learningRate*jPrimeTheta1())

 return updateTheta0, updateTheta1

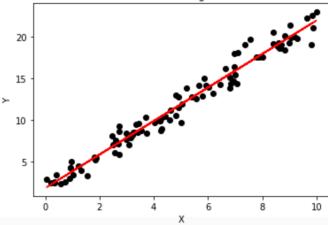
In [14]: #Energy value, Theta0, Theta1 for visualization
energyValue=[]
theta0Value=[]
theta1Value=[]

#Learning
while(1):
 energyValue.append(j())
 theta0Value.append(theta0)
 theta1Value.append(theta1)

 tempTheta0 = theta0
 tempTheta1 = theta1
 theta0, theta1 = updateTheta()
 if (tempTheta0 == theta0) and (tempTheta1 == theta1):
 break

#Visualize
plt.scatter(x, y, color = [0, 0, 0])
plt.title('After Linear Regression')
plt.xlabel('X')
plt.ylabel('Y')
plt.plot(x, h(theta), color=[1, 0, 0])
plt.show()
print(theta0, theta1)

After Linear Regression



1.8366360258373633 2.0152639337049

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In [0]: #initialize variables
theta0 = 10
theta1 = 1

In [12]: #Define linear function & cost function & derivative function of cost function
def hTheta():
 return theta0 + theta1*x

def j():
 return (np.sum((hTheta() - y)**2)/(2*m))

def jPrimeTheta0():
 return (np.sum(hTheta() - y))/m

def jPrimeTheta1():
 return (np.sum((hTheta() - y)*x))/m

#Visualize
plt.scatter(x, y, color=[0, 0, 0])
plt.title('Before Linear Regression')
plt.xlabel('X')
plt.ylabel('Y')
plt.plot(x, yHat)
plt.show()

Before Linear Regression

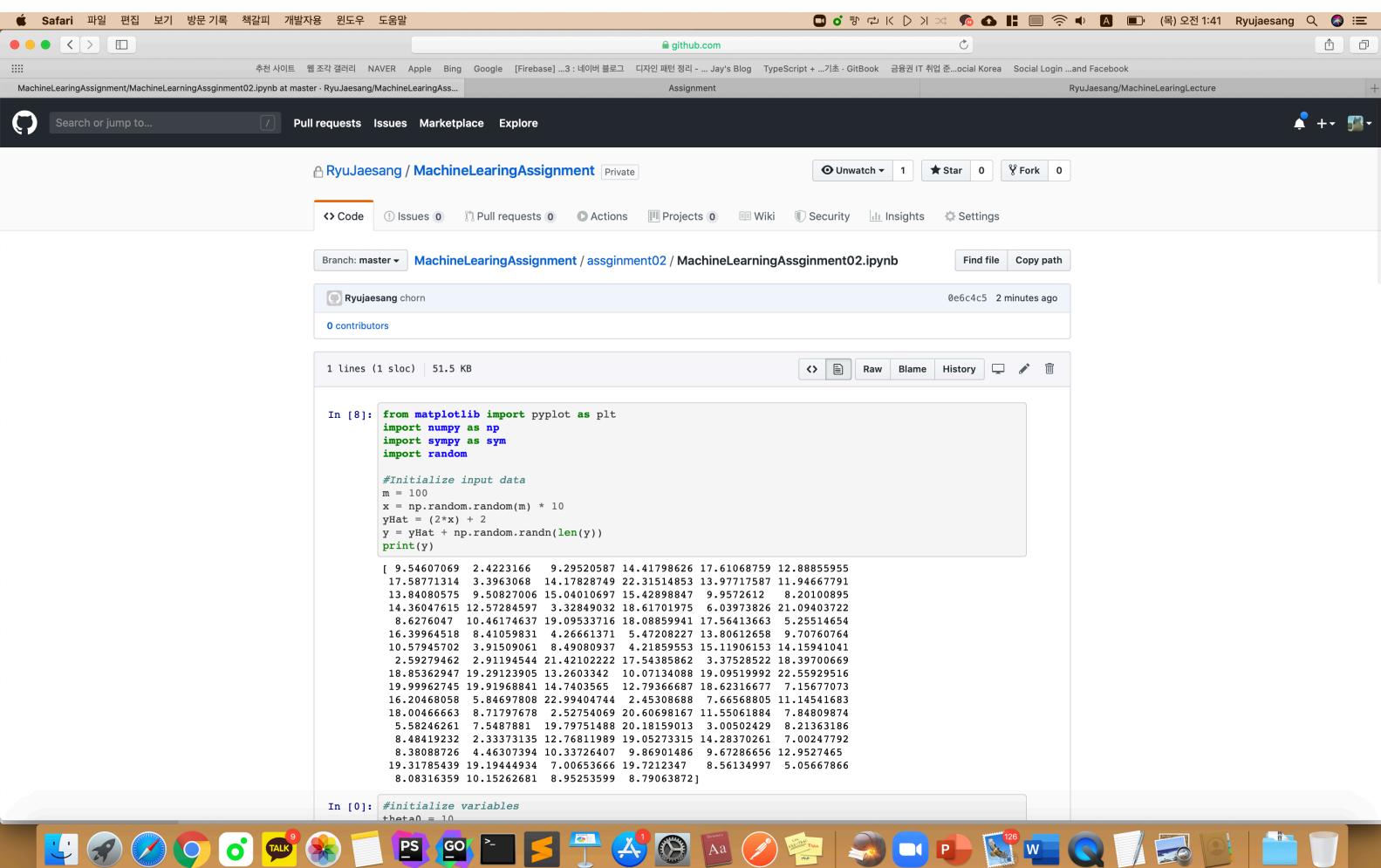
In [0]: #Define update function
learningRate = 0.001

def updateTheta():
 updateTheta0 = theta0 - (learningRate*jPrimeTheta0())
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 return updateTheta0, updateTheta1

In [14]: #Energy value, Theta0, Theta1 for visualization





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Commits · RyuJaesang/MachineLearingAssignment

Assignment

RyuJaesang/MachineLearingLecture

Commits on Mar 29, 2020

- feat: theta0 & theta1 value visualization
Ryujaesang authored and Ryujaesang committed 3 days ago
- feat: energyValue change visualization
Ryujaesang authored and Ryujaesang committed 3 days ago
- feat: output result done
Ryujaesang authored and Ryujaesang committed 3 days ago
- feat: using numpy
Ryujaesang authored and Ryujaesang committed 3 days ago
- feat: input
Ryujaesang authored and Ryujaesang committed 3 days ago

Commits on Mar 28, 2020

- feat: rm DS_Store
Ryujaesang authored and Ryujaesang committed 4 days ago
- feat: gitignore
Ryujaesang authored and Ryujaesang committed 4 days ago
- feat: gitignore added
Ryujaesang authored and Ryujaesang committed 4 days ago
- final: assignment01
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- Initial commit
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Commits on Apr 2, 2020

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Commits on Mar 30, 2020

feat: final assigment 01, 02
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Commits on Mar 29, 2020

feat: theta0 & theta1 value visualization
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feat: energyValue change visualization
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