Test Your Project Understanding

Calificación de la entrega más reciente: 100 %

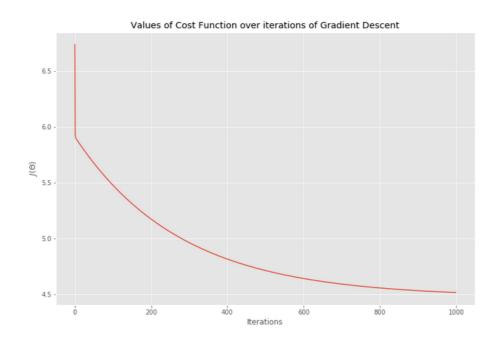
1.	You have imported a CSV file containing data into a Pandas dataframe df . What built-in function in Pandas do you call to take a look at the first five entries in df ?		1 / 1 punto	
	Odf.info()			
	odf.he	ad()		
	\sim	recto rect!		
2.	As a case-study, our objective in this project is to implement linear regression with one variable to predict profits for a bike sharing company. Let's suppose that Jane is the CEO of a bike sharing startup and she's considering different cities to expand into. Her company already has bikes in various cities and she has data for profits and populations from the cities. Jane would like to use this data to help her select which city to expand to next.			
	library croon the y-	For her exploratory data analysis phase, she want wants to use the Seaborn library create a scatterplot to visualize the Population on the x-axis and Profits on the y-axis using her data from a dataframe df . Which option would you recommend she use to create the scatterplot using Seaborn?		
•	1	<pre>sns.scatterplot(x='Population', y='Profit', data=df)</pre>		
0	1	<pre>sns.scatter(x='Population', y='Profit', data=df)</pre>		
0	1	<pre>plt.scatter(df['Population'], df['Profit'])</pre>		
(Correct			
	Good j	ob! We did exactly this in Task 3 of this hands-on project		

3. When the linear regression fits the data well, the value of the cost function $J(\theta)$ is supposed to decrease over the number of iterations of gradient

- True
- False

✓ Correcto

Correct! The objective is to minize the cost function. You will observe a monotonic decrease until convergence like in Task 7 of this hands on project:



4. In this hands-on project, how many features did we use to predict the target?

1 / 1 punto

- 3
- O 2
- •
- None of the above
 - **⊘** Correcto

Correct! We regressed Profit and Population.

5. In Task 4: Compute the Cost $J(\theta)$, why did we add an extra dimension to our input or feature matrix X?

1 / 1 punto

- To speed up the gradient descent algorithm
- To accomodate the intercept term and set it to all ones

O To accomodate the intercept term and set it to all zeros

⊘ Correcto

Correct! W have to add another dimension to our data to accommodate the θ _0 intercept term and set it to all ones. This allows us to treat θ _0 as simply another 'feature'.