## **ASSIGNMENT 3**

## Multivariate Linear Regression

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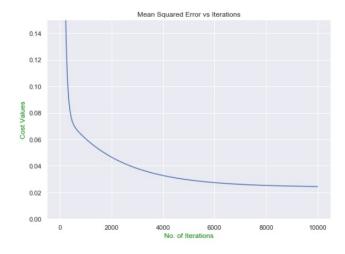
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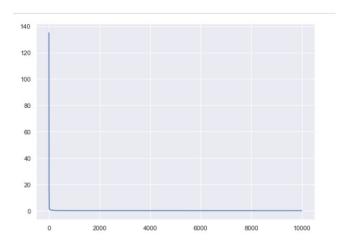
## **Problem Statement:**

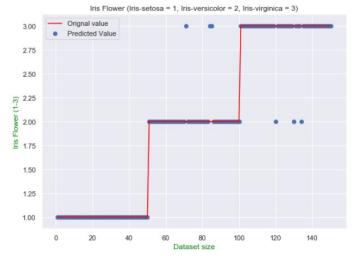
Use Multivariate linear Regression on the iris dataset to predict the classification. Also find the model accuracy.

	ld	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa

Theta: [[1.76405235 0.40015721 0.97873798 2.2408932 1.86755 799]]







The model predicted values of Iris dataset with an overall accuracy of  $96.0\,$