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**Linear Regression with Optimization**

**Assignment**

1. In this Assignment we will create linear regression along with gradient optimization.
2. Input dataset = [[1, 1], [2, 3], [4, 3], [3, 2], [5, 5]]
3. With co-efficient 0.4 and 0.8, create a function which multiplies the input data with the co-efficients
4. Now work on a function which estimates linear regression co-efficients using stochastic gradient
5. First give default learning\_rate and epochs
6. Create a for loop which iterates through range of epochs and does the error calculation and updates the co-efficient.
7. Print the error and the co-efficients after finishing the epochs

You can refer online videos or blogs to code it in python