

ML Lab (CS360)

Assignment 4

Simple Linear Regression (One feature)

1. Write your own code for linear regression model using the Gradient Descent Algorithm

Dataset: Dataset: Cricket chirps and temperature dataset (Kaggle). Click [here](#) to download the dataset

- i) You need to split the dataset into train(60%), validation (20%), and test(20%).
- ii) Print the train, validation, and test MSE by considering the learning rate 0.01, 0.001, 0.3, 0.5, and 1.
- iii) Plot graph for training MSE vs. epoch by considering the learning rate 0.1.

Please do not copy anyone's code. Try to learn coding.

Thank you
Happy learning