

Assignment I.b: Linear Regression

q1. Create a complete document on Linear Regression

- model representation
- cost function
- Gradient descent algorithm
- Python program for linear regression (single and multi-variable)
 - load a regression data of your choice
 - with and without (Gradient Descent) using an in-build python regression model
 - Train the model with 75% of total data and do the performance evaluation of the model using the remaining 25%(give the measures: MSE, RMSE, R^2 , etc.)
 - Draw a performance plot of the regression model(% of training data vs RMSE)