

Analysis of loss functions for different inputs

- For the loss functions required for the linear regression they will work more likely to be for the data which is of linear format where the loss function $|x - \bar{x}|^3$ is more suited for the data which has the elements which have large difference between them as the number of items increases. Where as $|x - \bar{x}|$ is suited for the data which has less difference between the values as the number of items increases.
- For the loss functions of Polynomial regression they will work more good on the data which grows in order of x^2 where the $|x - \bar{x}|^7$ will work more nicely where the difference between the values of data is quite large as compared to $|x - \bar{x}|^4$.