**TO-DO**

**Task :- To build a linear regression class from scratch**

Subtasks:

1. Create train\_test\_split function for splitting the data into training & testing set.
2. To create different mathematical functions to embed in regression class
3. Error computation function (under .fit() function)
4. Calculating x value for which the error is min
5. Multiplication of x vector with the test data dependent variables for calculating predicted values (under .predict() function)
6. Add different hyper parameters to functions for tuning/tweaking of the model
7. Finally, Embed everything into a class so objects of the model can be used for prediction

Once it’s achieved, we can go for solving the problem of ill-conditioning & dive deep into non-linear kernels.