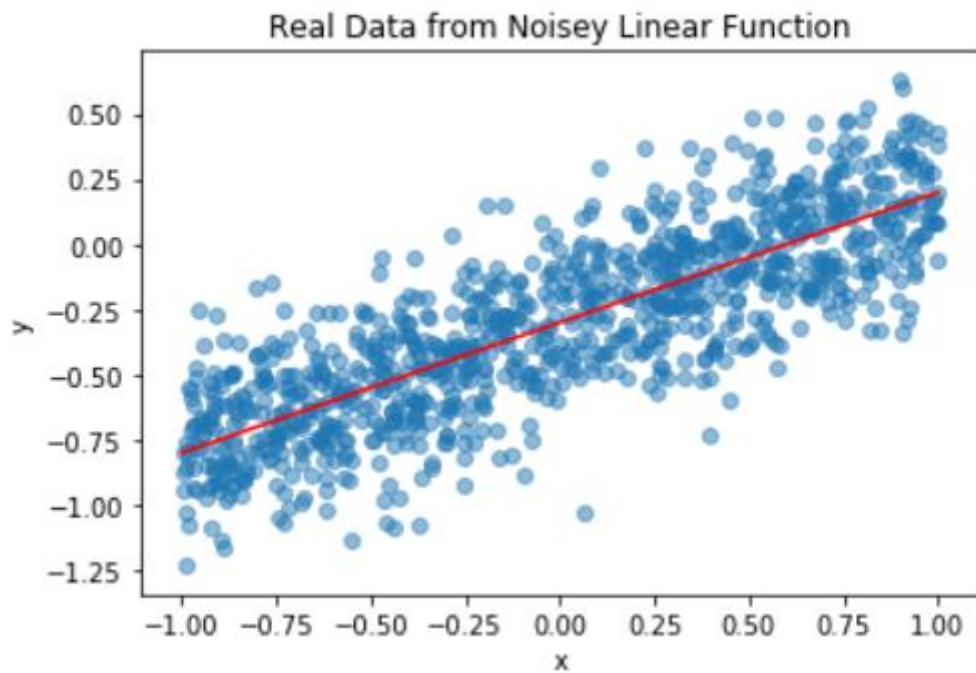


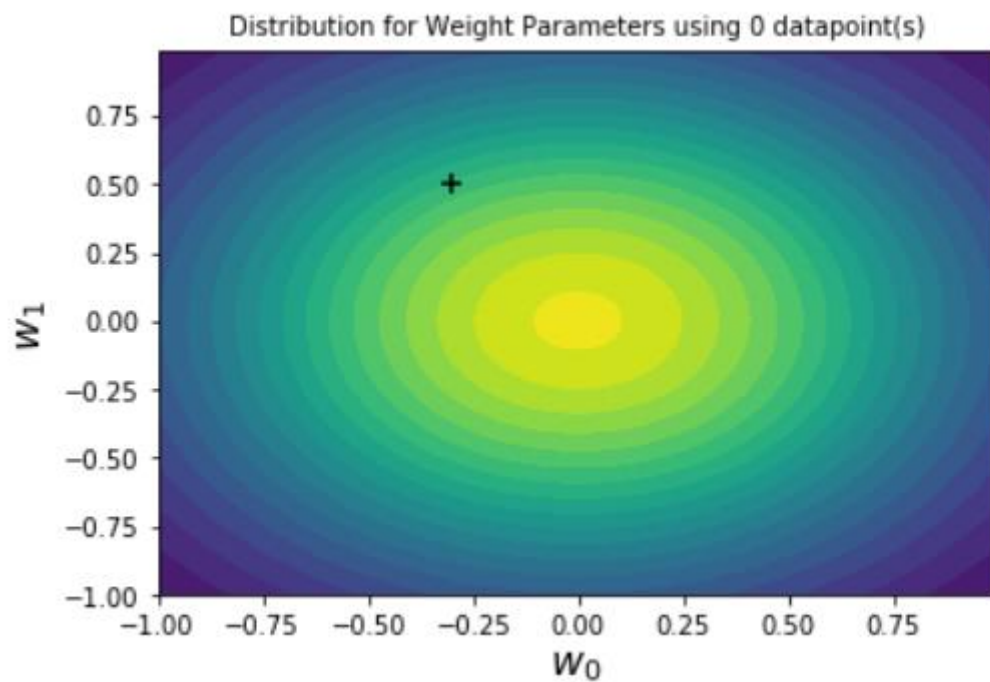
### ML Lab Task 3

- Sumith Sai Budde , 18BCS101

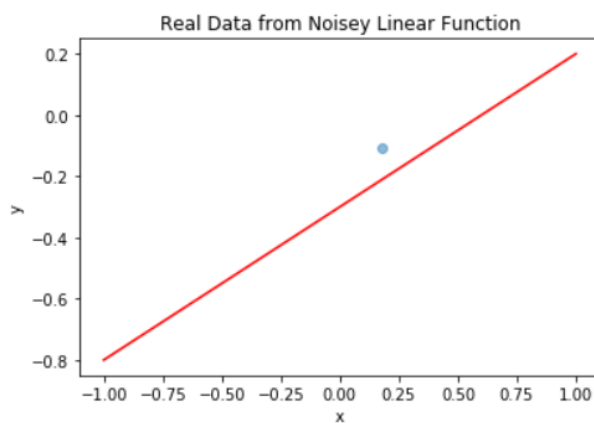
Real Noisy line of intercept = -0.3 and slope = 0.5 with gaussian noise having mean =0 and var = 0.04 :



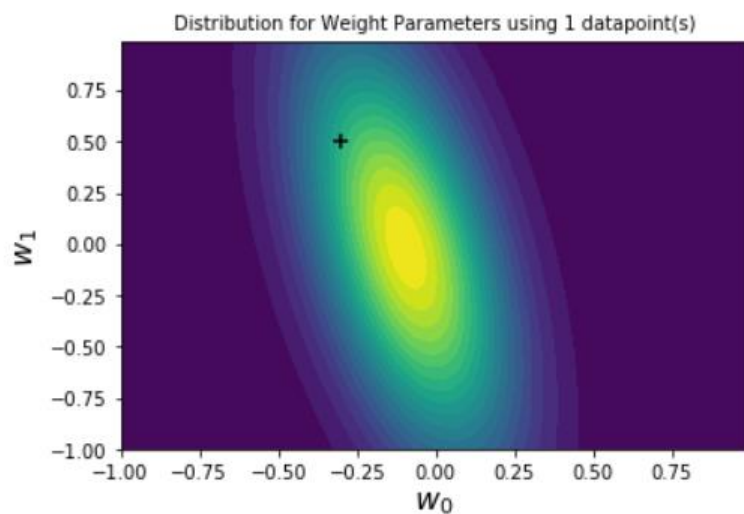
Parameter Distribution using 0 datapoints :



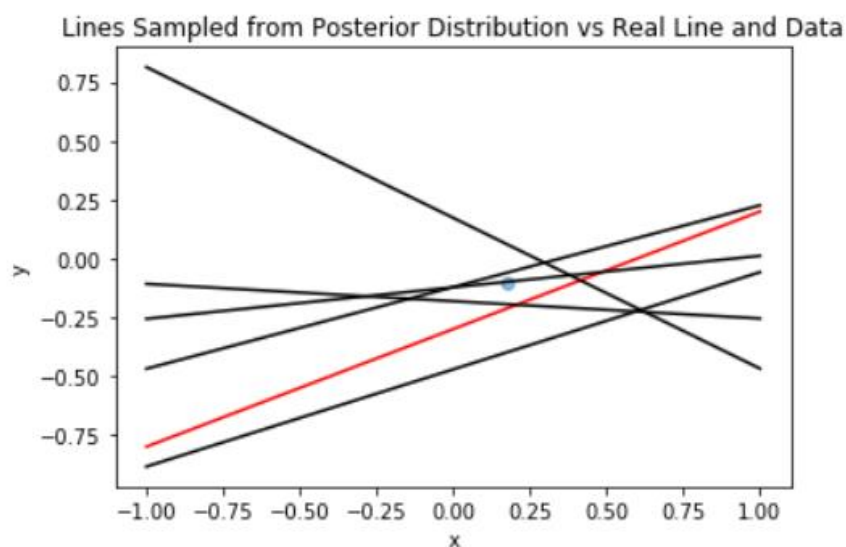
Let's pull out a single data point from our real data and see how it relates to the true function :



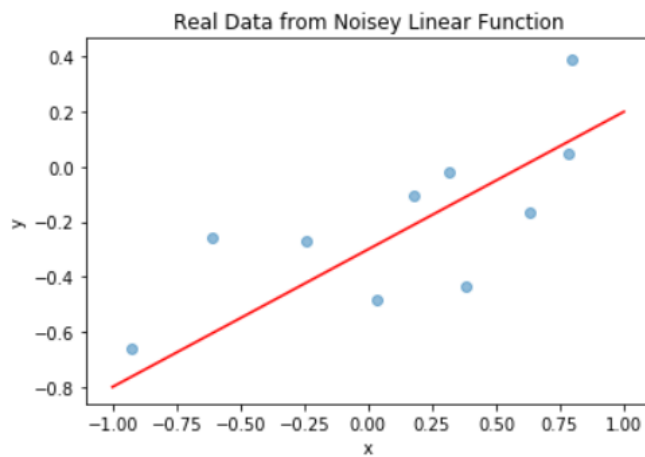
Parameter Distribution using above data point :



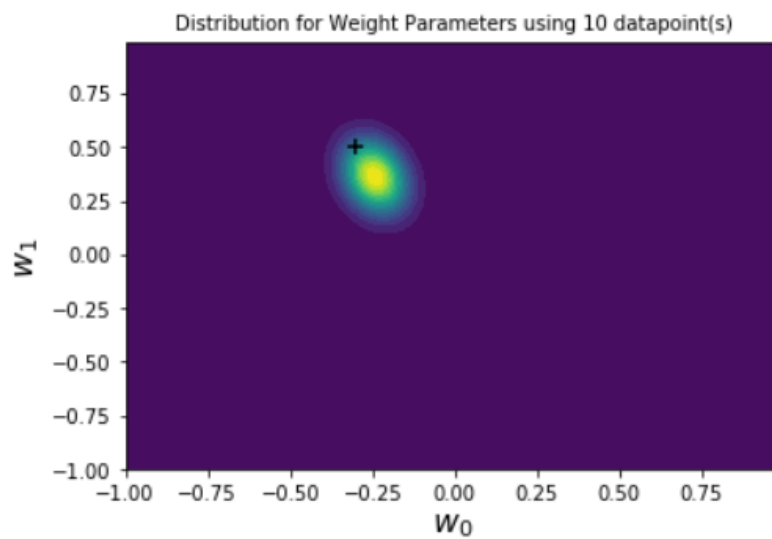
Data Space : Red colour line is the real line.



Now let's use 10 sample points to get the distribution :



Parameter Distribution using 10 data points :



Data Space : Red colour line is the real line.

