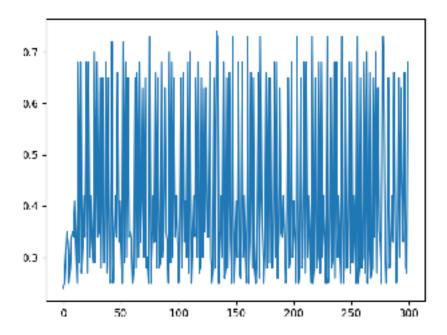
11. Ein(g1) = 0.24

Alpha1 = 0.5763397549691924

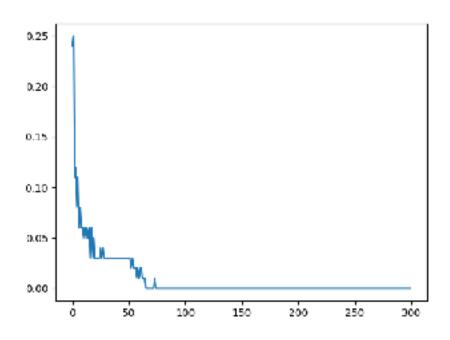
Figure 1: t versus Ein(gt)



12.

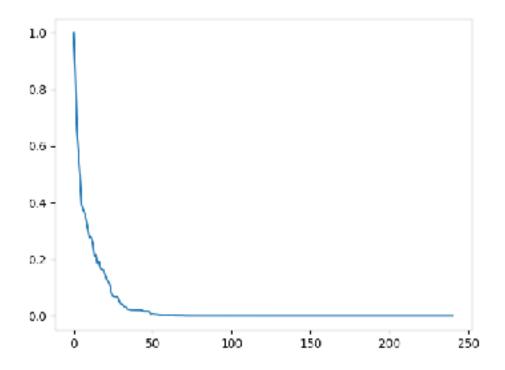
Ein(gt) does not always decreases or increases while t getting larger. Instead, it seems that there are several peak along with a fast decreasing. From the course, we know that adaBoost decides a new g by modifying the weight of the data. In this case, g only depends on one dimension. Therefore, it cannot fit the real answer very well. Moreover, it can be mislead by the weighted data so that the error increases.

13. Ein(G) = 0 Figure 2: t versus Ein(Gt)

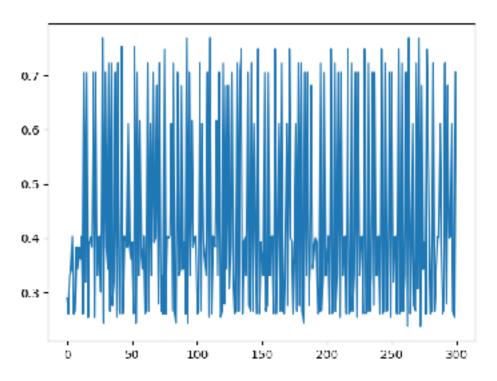


14. U2 = 0.8541662601625051 Ut is too small and becomes NaN.

Figure3: t versus Ut



15. Eout(g1) = 0.29 Figure 4: t versus Eout(gt)



16. Eout(G) = 0.132 Figure 5: t versus Eout(G)

