CSDS 440: Assignment 6

Shaochen (Henry) ZHONG, sxz517 Mingyang TIE, mxt497

Due and submitted on 10/16/2020 Fall 2020, Dr. Ray

Problem 23

(i, ii, iii)

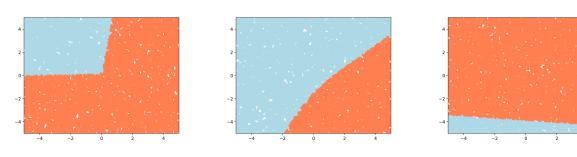


Figure 1: $w \in [-10, 10]$

Figure 2: $w \in [-3, 3]$

Figure 3: $w \in [-0.1, 0.1]$

By observation we may tell with the weights w decaying, the output graph becomes more "linear" which is better againt overfitting. For color reference, we have Output = 1 and Output = 0.