Tyler Paulsen
11/14/2015
BNS #1
csci-420

1. Graph:

Attributes combinations (1vs2)
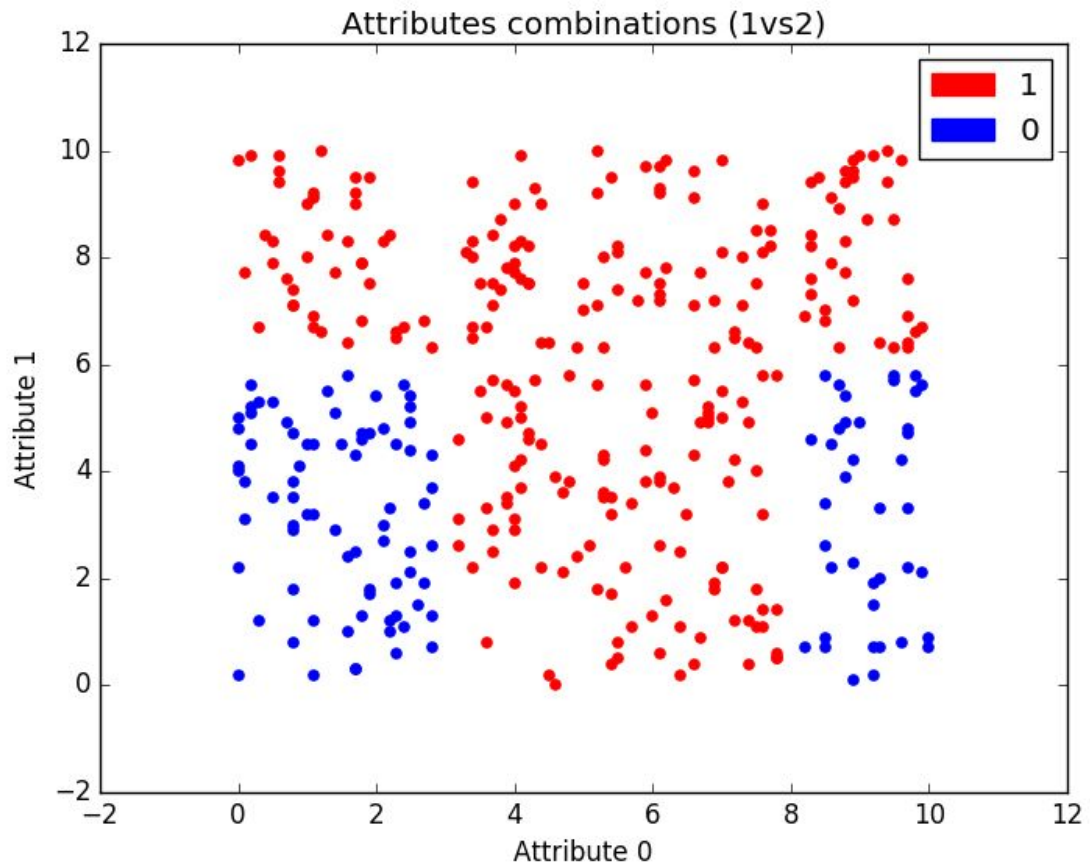
2. The program might have had to deal with ties, but i did not deal with it.
3. The program stopped when it could not split any more. Usually it would stop when the original array was split until there was nothing to split on.
4. The final classifier was a 1 main split, and 2 sub splits within the main one. As seen above, the first split would be along the y axis, and above that value, there would be no more splits. Below that y threshold, there were 3 splits on the x axis. The tree generated was:
    a. Gini: (<threshold> , <attribute>)
        i.   Root-> (5.8, 1)
        ii.   Root->Left-> (2.8, 0)
        iii. Root->Right-> (9.8, 0)
        iv.   Root->Right->Left-> (9.7, 0)
        v.   Root->Right->Right None
        vi.   Root->Left->Left (2.8, 0)
        vii. Root->Left->Right (7.8, 0)
5. The accuracy of the result was 100%.
6. The program just created the thresholds, then i manually put them in.