

Neelay Chakravarthy

Dr. Chen

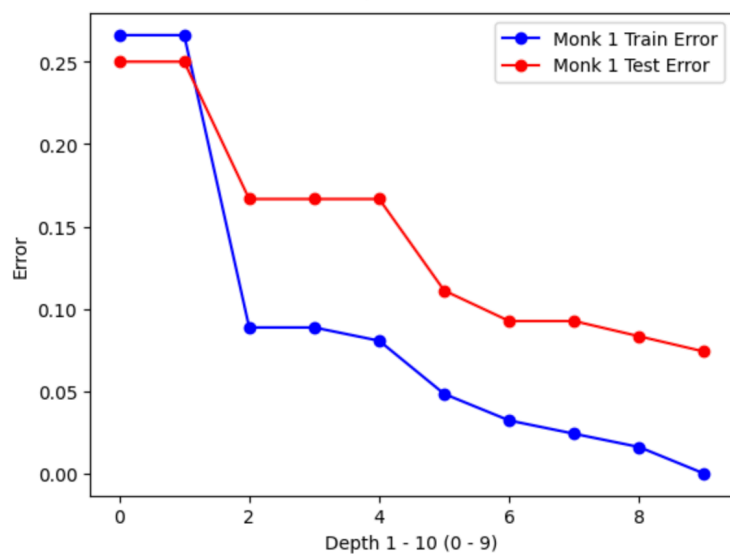
CSCI 184

April 22nd, 2024

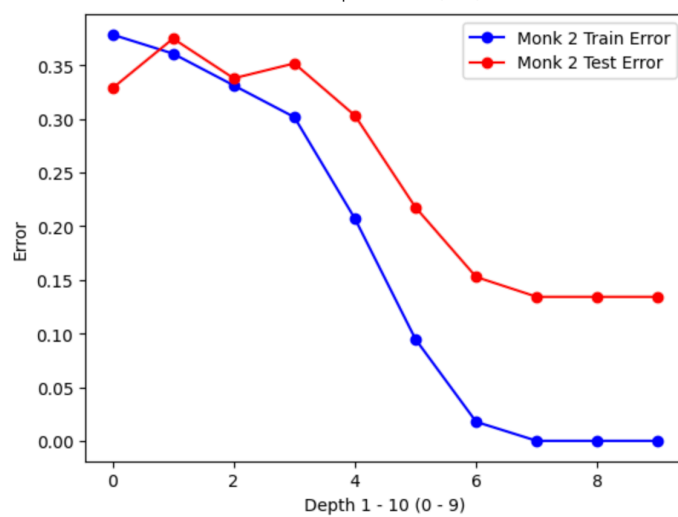
HW1 Part2

My three error plots for my own learned decision trees:

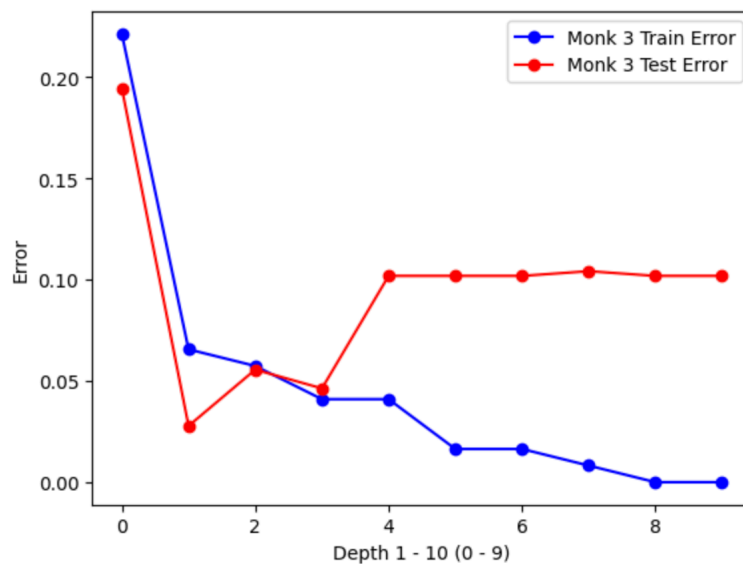
Monk 1 Train and Test Errors for Depths 1-10 (0-9)



Monk 2 Train and Test Errors for Depths 1-10 (0-9)



Monk 3 Train and Test Errors for Depths 1-10 (0-9)



My learned decision trees for monk-1 and their confusion matrices:

MY TREE

Depth 1:

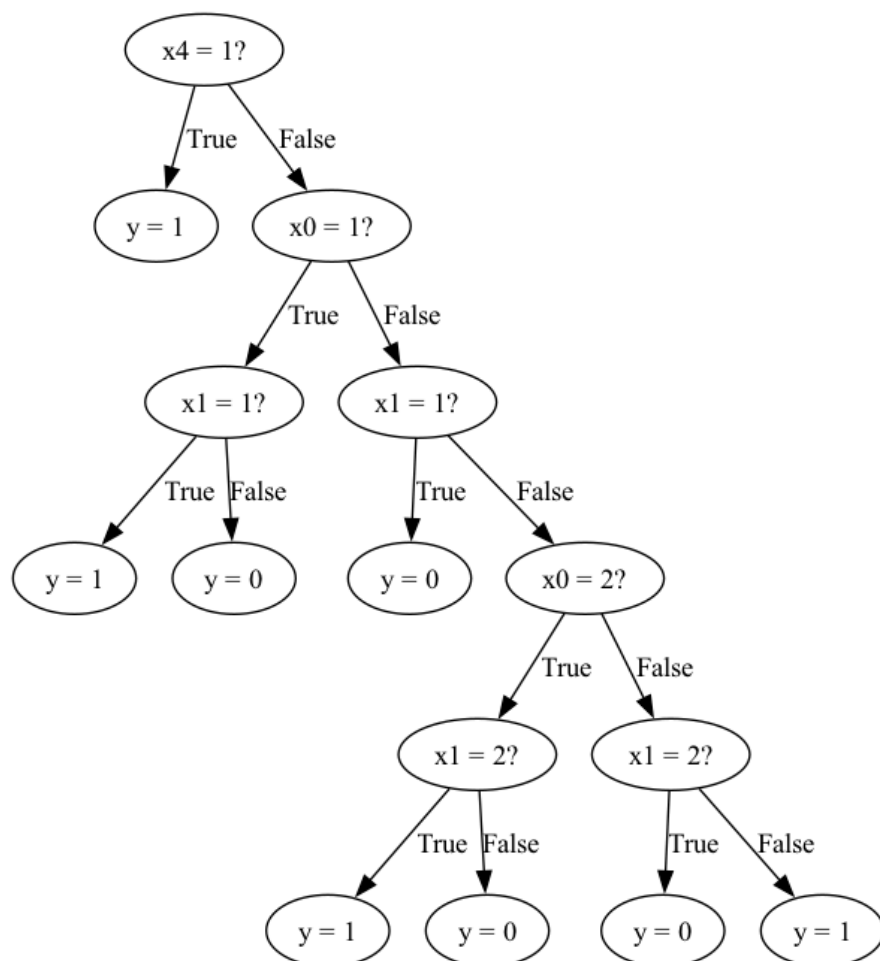
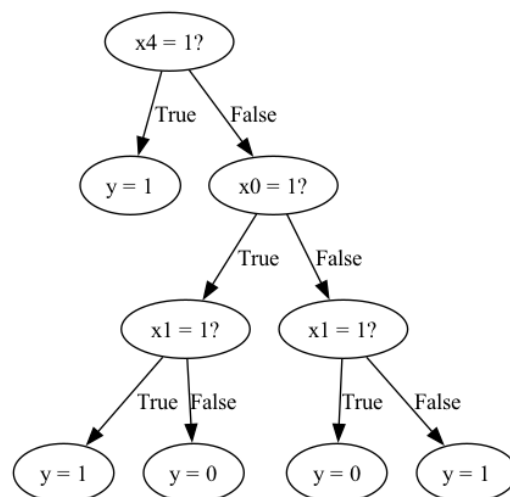
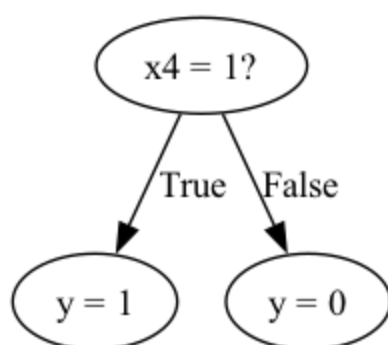
```
[[216 108]
 [  0 108]]
```

Depth 3:

```
[[216  72]
 [  0 144]]
```

Depth 5:

```
[[216   0]
 [  0 216]]
```



Sklearn's decision tree classifier trees for monk-1 and their confusion matrices:

SKLEARN DTC

Depth 1:

```
[[216 108]
 [  0 108]]
```

Depth 3:

```
[[216 108]
 [  0 108]]
```

Depth 5:

```
[[216  81]
 [  0 135]]
```

