

-----Results for Dataset-1-----

Depth = 1

Decision Tree #####

'1'

Accuracy = 50.0
Misclassifications = 216

Confusion Matrix #####
#####

Model Result

| class = 1 class = 0 | | | | |
|-----------------------|-----------|-------------|----------|-------------|
| True Result | class = 1 | TP = 0 | FN = 216 | Total = 216 |
| | class = 0 | FP = 0 | TN = 216 | Total = 216 |
| Total = 0 | | Total = 432 | 432 | |

Depth = 2

Decision Tree #####

'a5'
 '1'
 '0'
 '0'
 '0'

Accuracy = 75.0
Misclassifications = 108

Confusion Matrix #####
#####

Model Result

| class = 1 class = 0 | | | | |
|-----------------------|-----------|-------------|----------|-------------|
| True Result | class = 1 | TP = 0 | FN = 108 | Total = 108 |
| | class = 0 | FP = 0 | TN = 324 | Total = 324 |
| Total = 0 | | Total = 432 | 432 | |

-----Results for Dataset-2-----

Depth = 1

Decision Tree #####

'0'

Accuracy = 67.1296296296
Misclassifications = 142

Confusion Matrix #####
#####

Model Result

| class = 1 class = 0 | | | | |
|-------------------------------|-----------|--------|----------|-------------|
| True Result | class = 1 | TP = 0 | FN = 142 | Total = 142 |
| | class = 0 | FP = 0 | TN = 290 | Total = 290 |
| Total = 0 Total = 432 432 | | | | |

Depth = 2

Decision Tree #####

'a5'
 '0'
 '0'
 '1'
 '0'

Accuracy = 59.7222222222
Misclassifications = 174

Confusion Matrix #####
#####

Model Result

| class = 1 class = 0 | | | | |
|-----------------------|--|--|--|--|
|-----------------------|--|--|--|--|

| | | | | |
|-------------|-----------|-----------|-------------|-------------|
| True Result | class = 1 | TP = 0 | FN = 174 | Total = 174 |
| | class = 0 | FP = 0 | TN = 258 | Total = 258 |
| <hr/> | | | | |
| | | Total = 0 | Total = 432 | 432 |
| <hr/> | | | | |

-----Results for Dataset-3-----

Depth = 1

Decision Tree #####

'0'

Accuracy = 47.2222222222
Misclassifications = 228

Confusion Matrix #####
#####

Model Result

| | | | | |
|-------------|-----------|-----------|-------------|-------------|
| <hr/> | | | | |
| | | class = 1 | class = 0 | |
| True Result | class = 1 | TP = 0 | FN = 228 | Total = 228 |
| | class = 0 | FP = 0 | TN = 204 | Total = 204 |
| <hr/> | | | | |
| | | Total = 0 | Total = 432 | 432 |
| <hr/> | | | | |

Depth = 2

Decision Tree #####

'a2'
 '1'
 '0'
 '1'

Accuracy = 80.5555555556
Misclassifications = 84

Confusion Matrix #####
#####

Model Result

| | class = 1 | class = 0 | |
|-------------|-----------|-------------|-------------|
| True Result | TP = 0 | FN = 84 | Total = 84 |
| | FP = 0 | TN = 348 | Total = 348 |
| | Total = 0 | Total = 432 | 432 |

-----Results for Own Dataset-----

Depth = 1

 ##### Decision Tree #####
 #####
 '2'

Accuracy = 70.5882352941
 Misclassifications = 35

 ##### Confusion Matrix #####
 #####

Model Result

| | class = 1 | class = 0 | |
|-------------|-----------|-------------|------------|
| True Result | TP = 0 | FN = 35 | Total = 35 |
| | FP = 0 | TN = 84 | Total = 84 |
| | Total = 0 | Total = 119 | 119 |

Depth = 2

 ##### Decision Tree #####
 #####
 'SI'

'4'
 '2'
 '2'
 '2'
 '4'
 '4'
 '4'

'4'
'4'
'4'

Accuracy = 94.9579831933
Misclassifications = 6

Confusion Matrix #####
#####

Model Result

| class = 1 class = 0 | | | | | |
|-------------------------------|-----------|--------|----------|-------------|--|
| True Result | class = 1 | TP = 0 | FN = 6 | Total = 6 | |
| | class = 0 | FP = 0 | TN = 113 | Total = 113 | |
| Total = 0 Total = 119 119 | | | | | |