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Assign11

Random Forest

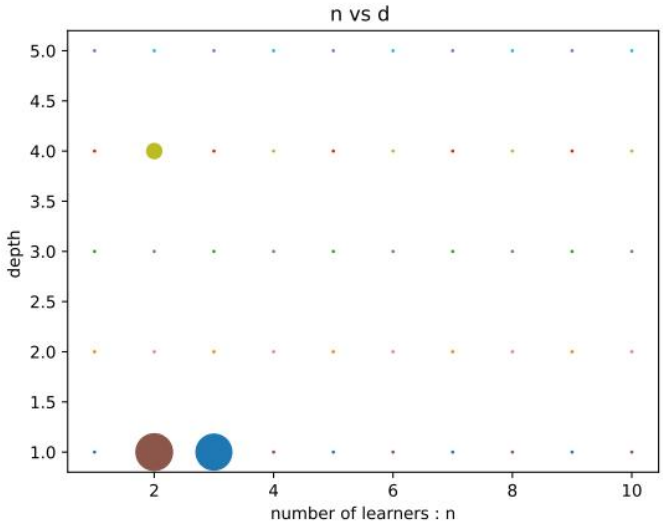
Q1

N=2

D=2

```
n : 2
d : 2
When n = 2 and d = 2
```

```
The Error Rate is 0.0 when n=1,d=1
The Error Rate is 0.0 when n=1,d=2
The Error Rate is 0.0 when n=1,d=3
The Error Rate is 0.0 when n=1,d=4
The Error Rate is 0.0 when n=1,d=5
The Error Rate is 0.48 when n=2,d=1
The Error Rate is 0.0 when n=2,d=2
The Error Rate is 0.0 when n=2,d=3
The Error Rate is 0.08 when n=2,d=4
The Error Rate is 0.0 when n=2,d=5
The Error Rate is 0.46 when n=3,d=1
The Error Rate is 0.0 when n=3,d=2
The Error Rate is 0.0 when n=3,d=3
The Error Rate is 0.0 when n=4,d=3
The Error Rate is 0.0 when n=4,d=4
The Error Rate is 0.0 when n=4,d=5
The Error Rate is 0.0 when n=5,d=1
The Error Rate is 0.0 when n=5,d=2
The Error Rate is 0.0 when n=5,d=3
The Error Rate is 0.0 when n=5,d=4
The Error Rate is 0.0 when n=5,d=5
The Error Rate is 0.0 when n=6,d=1
The Error Rate is 0.0 when n=6,d=2
The Error Rate is 0.0 when n=6,d=3
The Error Rate is 0.0 when n=6,d=4
The Error Rate is 0.0 when n=6,d=5
The Error Rate is 0.0 when n=7,d=1
The Error Rate is 0.0 when n=7,d=2
The Error Rate is 0.0 when n=7,d=3
The Error Rate is 0.0 when n=7,d=4
The Error Rate is 0.0 when n=7,d=5
The Error Rate is 0.0 when n=8,d=1
The Error Rate is 0.0 when n=8,d=2
The Error Rate is 0.0 when n=8,d=3
The Error Rate is 0.0 when n=8,d=4
The Error Rate is 0.0 when n=8,d=5
The Error Rate is 0.0 when n=9,d=1
The Error Rate is 0.0 when n=9,d=2
The Error Rate is 0.0 when n=9,d=3
The Error Rate is 0.0 when n=9,d=4
The Error Rate is 0.0 when n=9,d=5
The Error Rate is 0.0 when n=10,d=1
The Error Rate is 0.0 when n=10,d=2
The Error Rate is 0.0 when n=10,d=3
The Error Rate is 0.0 when n=10,d=4
The Error Rate is 0.0 when n=10,d=5
```



Q2

TP:29; FP:0; FN:0; TN:23

```
TP:  29
FP:  0
FN:  0
TN:  23
```

Q3

TPR:1.0

TNR:1.0

```
Year 2
TPR :1.0
TNR :1.0
```

Q4

For second year, the long position strategy is a better way to get more amount money at the end of the year