

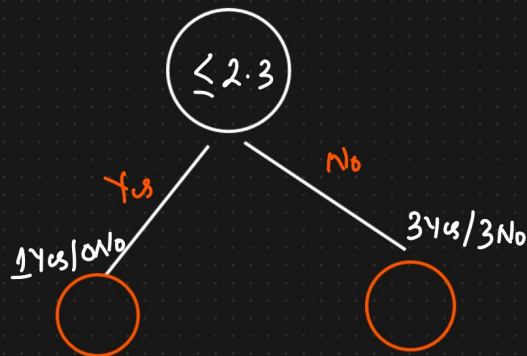
Decision Tree For Numerical Split

Day	Outlook	Temperature	Humidity	Wind	Play Tennis
1	Sunny	Hot	High	Weak	No
2	Sunny	Hot	High	Strong	No
3	Overcast	Hot	High	Weak	Yes
4	Rain	Mild	High	Weak	Yes
5	Rain	Cool	Normal	Weak	Yes
6	Rain	Cool	Normal	Strong	No
7	Overcast	Cool	Normal	Strong	Yes
8	Sunny	Mild	High	Weak	No
9	Sunny	Cool	Normal	Weak	Yes
10	Rain	Mild	Normal	Weak	Yes
11	Sunny	Mild	Normal	Strong	Yes
12	Overcast	Mild	High	Strong	Yes
13	Overcast	Hot	Normal	Weak	Yes
14	Rain	Mild	High	Strong	No

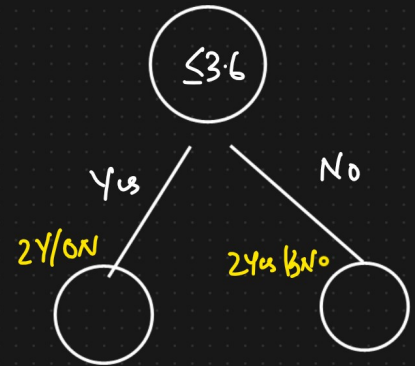
① Sorting the feature

f2	f1	o/p
-	→ 2.3	Yes
-	→ 3.6	Yes
-	→ 4	No
-	→ 5.2	No
-	→ 6.7	Yes
-	→ 7.8	No
-	→ 9.0	Yes

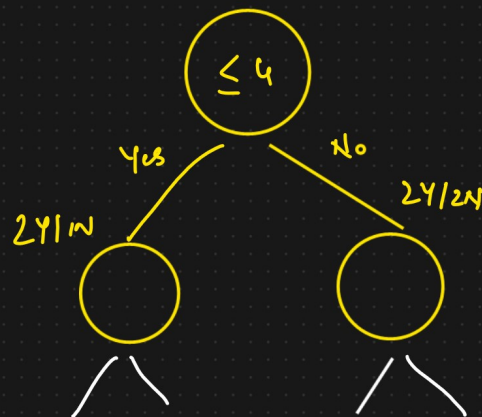
① Threshold = 2.3



② Threshold = 3.6



③ Threshold = 4



Millions of Records

Time Complexity ↑↑