Limitation of Decision Tree
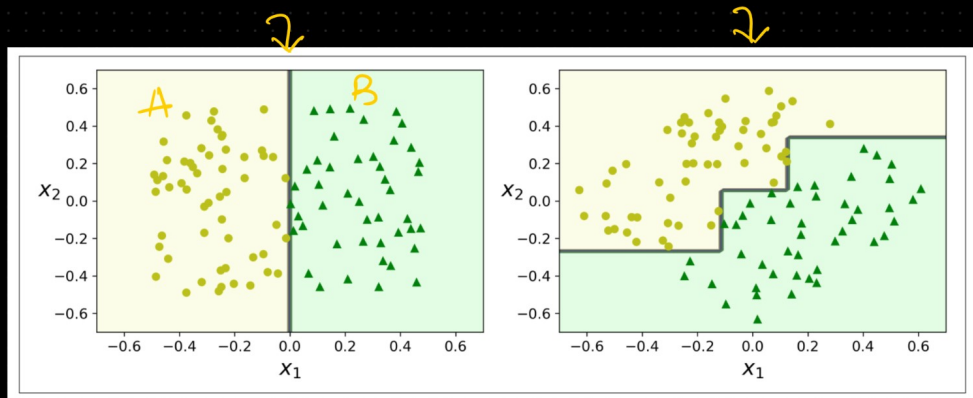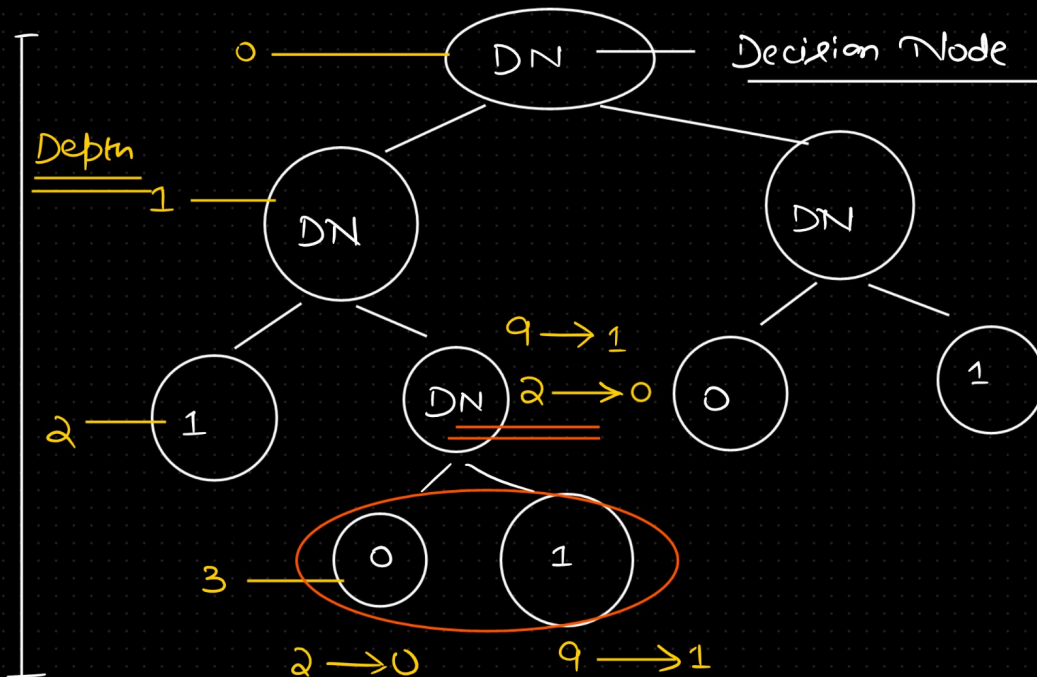

→ Sensitive to small variation in the training set.

Pruning → avoid overfitting

Decision Tree

Depth

0 ——— DN — Decision Node

1 — DN   DN

$9 \to 1$
$2 \to 0$

2 — 1   DN   0   1

3 — 0   1

$2 \to 0$ $9 \to 1$

Post-pruning ——→ Decision tree is created entirely & then pruning

Pre-pruning

↳ At the time of Decision

Process starts

Tree creation itself, Drawing.
_____

Tree creation itself, Drawing.