

## Decision Tree Post Pruning And Pre Pruning [Reduce overfitting]

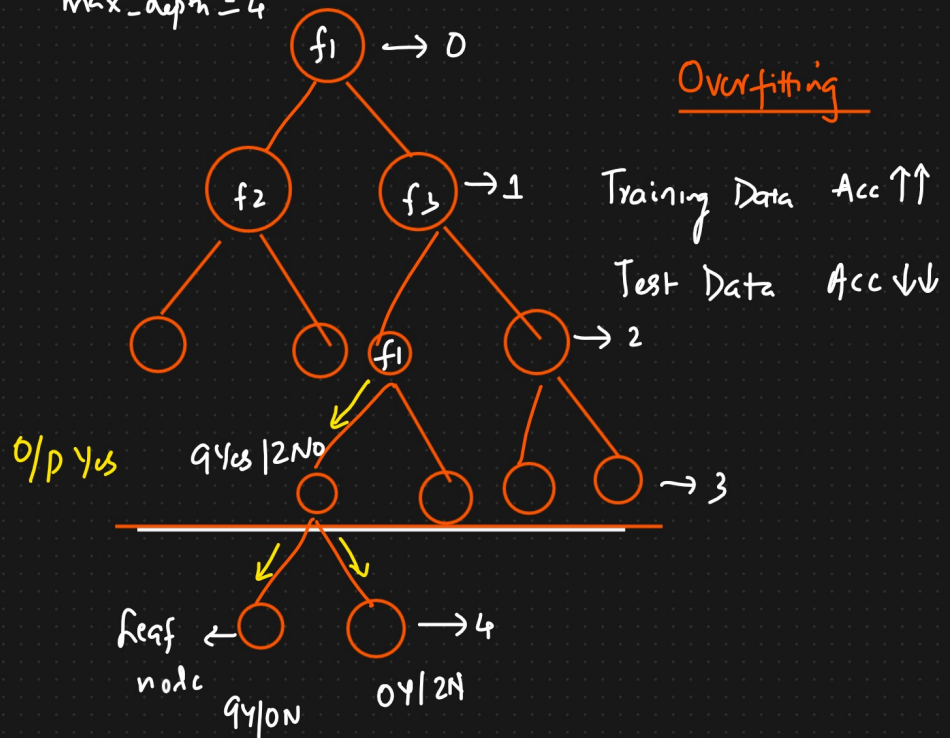
## Training Data

| $f_1$ | $f_2$ | $f_3$ | O/P |
|-------|-------|-------|-----|
|-------|-------|-------|-----|

## Generalized Model

## Reduce Overfitting

max. depth = 3

$$\text{max\_depth} = 4$$


### ① Post Pruning

- ① Construct Entire Decision Tree to complete leaf Node
- ② Pruning the Decision Tree
- ③ Smaller Dataset Suitable.

## ② Pre Pruning

- ### ① Hyperparameter Tuning to Select the Best parameters