

4x+1y=> linear combination. OA -> unit vector
on
Eigenvector of PC1 ditdizt ... dn² = eigenvalue of PCI and Variation of  $PC1 = \frac{d_1^2 + \dots + d_n^2}{n-1} = 15$  $\frac{11 P(2 - b_1^2 + \dots b_n^2)}{n-1} = 3$ 10 dim -> 10 Pcs. Plot variance ratio [0.28 0.15 0.10 0.08 . -..] (0.28+0.15+0.10+0.08) n-components = 0.80

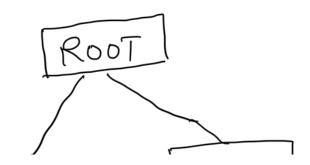
Topcls it will give x Pcls<10

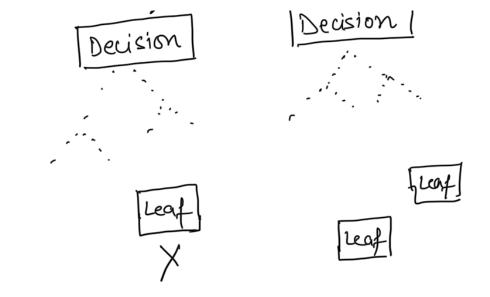
- (1) Scale origin
- Dind best fit line min error or max var
- 3 Pc1 is best fit line
- FON Normalie PCI Ls ev of PCI Ls evalue of PCI
  - \$ PLZ oranogonal to PCI
  - (E) Rotate sue PCI and PCL
  - € Calculate variance nation PCI > PCZ
  - (8) Using a fureshold select too.

Totaldim > no. of Pols

2 -> 1
20 -> 5/4/7
20 -> 2/20/100.

Tree based methods.

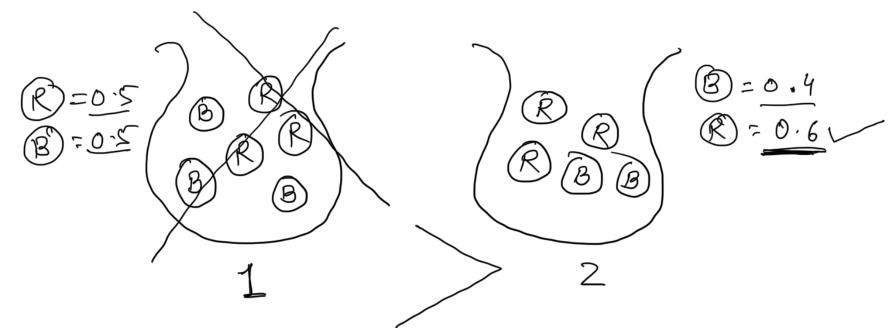




- 1) What are there noder and how do me split??
  - (2) The order of sprit ...

Curropy

measure of impurity.



- (1) Choose any Day, any color (Red Blue)
- (2) If you draw a ball of the chosen color from the chosen by you win 10,000 \$. Which color, bap??

ENTODY

$$E_2 < E_1$$
 $E_2$ 
 $E_3$ 
 $E_3$ 
 $E_4$ 

Hum

Windy,