

North South University Department of Electrical & Computer Engineering

CSE 445

Section:4

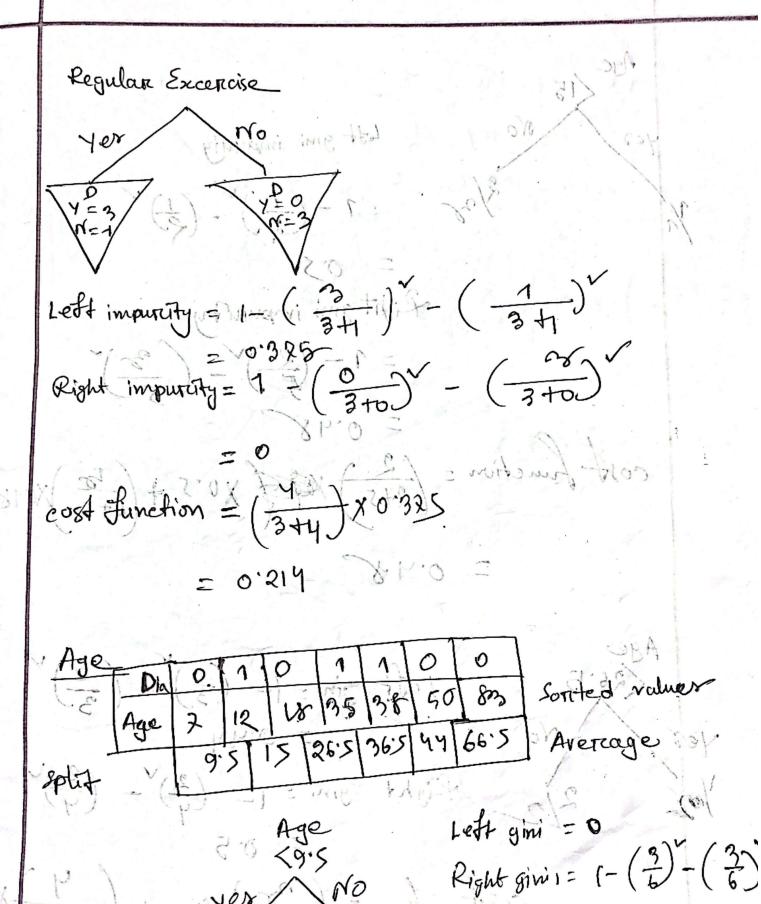
Anik Roy Pranto 19212190042

· High Colestorel	Regulan Encencise	Age	Diabates
Colestorel	Excercise	1,00	0
	У	X	Ų.
·y	N	18	0
N .	Y	12	7
N .	Y	38	1
У.	y	.35	1
y	n	50	0
7	'N'	803	0.

Highlolestonel

Right impureity: 1 - (1+3) #- (1+3)

deft imputify: $1 - \left(\frac{2}{2+1}\right)^2 - \left(\frac{1}{2+1}\right)^2$



cost f = (= x0.5) = 0.51

20%

Regular Execución Lest gini impuraty = 1 - (2) - (2) 2 orsv Pight gind impoundry time = 1- (20) = (3) - (3) cost function z 2+5 X0.2 + (2+5)X04 co Leff gini = 1- (3) (3) Box 200 5.99 Like 5.96 2.90 2 500 18 18 2.90 Right gini = 1- (2) - (2) cost Lun = (3/43) x.44+ (4/3) 4500 (0)

Age

Age

(36)

Very

No

Pight =
$$1 - \left(\frac{2}{4}\right)^{2} - \left(\frac{2}{3}\right)^{2}$$

(off $f = \frac{4}{2}$) $\times 0.5 + \left(\frac{2}{3}\right)^{6}$
 $\times 0.5$
 $\times 0.5$

Me got Regulare excercise as lowest cost function so it will be the 1007 node Regular Excercite Yer No Diabates age = 7 gini=0.0 givi = 0.375 samples = sample = 53. 170 42.9% tox No Diabates Diabater gim = 0 gimi = 0 sample = 429% sample = 143%

Final decision free

Generated DT From Colab Link: https://cutt.ly/v02n1mm

