

ML

Assignment 1

Name: Zubair Raza

Roll No: FNU-BLS-085

Instance Space

X = instance space C = Concept Space

	<u>Beak Shape</u>	<u>Feather Color</u>	<u>Bald Eagle</u>
x_1	Straight	Light	No (0)
x_2	Straight	Dark	No (0)
\vdots			
\vdots	Hooked	Light	No (0)
\vdots	Hooked	Dark	Yes (1)
\vdots	Curved	Light	No (0)
x_n	Curved	Dark	No (0)

$\underbrace{\hspace{10em}}_{C}$

Size of
Instance space

$$|X| = 3 \times 2 = 6$$

Concept Space

$$2^6 = 64$$

0	0	0
0	0	0
0	0	0

C_1

1	0	0
0	0	0
0	0	0

C_2

0	0	0
1	0	0
0	0	0

C_3

...

1	1	1
1	1	1
1	1	1

(64)