

LAB EXERCISE 4:

GROUP 8

	College	Student	airport	taxi	driver	Toronto	Art	museum	life	machine	learning	
College Student	1	1	0	0	0	0	0	0	0	0	0	11000000000
Airport taxi driver	0	0	1	1	1	0	0	0	0	0	0	00111000000
Toronto art museum	0	0	0	0	0	1	1	1	0	0	0	00000111000
Life art	0	0	0	0	0	0	1	0	1	0	0	00000010100
Machine learning student	0	1	0	0	0	0	0	0	0	1	1	01000000011

Number of rows: 5 || Number of columns: 11

CALCULATING IDF:

> COLLEGE

$$\text{IDF} = \log (N / \text{dfx})$$

$$\text{IDF} = \log (5 / 1)$$

$$\text{IDF} = \log (5)$$

$$\text{IDF} = 0.6989$$

> ART

$$\text{IDF} = \log (N / \text{dfx})$$

$$\text{IDF} = \log (5 / 2)$$

$$\text{IDF} = \log (2.5)$$

$$\text{IDF} = 0.3979$$