

NATIONAL UNIVERSITY OF MODERN LANGUAGES
ISLAMABAD



Data Mining (LAB)

Lab Task: 03

Submitted to
Dr. Moiz Ullah Ghouri

Submitted By
Junaid Asif
(BSAI-144)

Submission Date: October 22, 2024

Lab – Task

Find distance based on attributes 'fav color' and 'fav food' between:

1. Ali and Bilal
2. Ali and Faris

```
# distance

def calculate_distance(person1, person2):
    p = len(person1)
    m = 0

    for attr1, attr2 in zip(person1, person2):
        if attr1 == attr2:
            m = m+1

    distance = (p - m) / p
    return distance

ali = ['Blue', 'Cake']
bilal = ['Yellow', 'Cake']
faris = ['Yellow', 'Burger']

print('Distance between Ali and Bilal is:', calculate_distance(ali, bilal))
print('Distance between Ali and Faris is:', calculate_distance(ali, faris))
```

✓ 0.0s

Distance between Ali and Bilal is: 0.5
Distance between Ali and Faris is: 1.0