



# MUAZ IJAZ

SP20-BCS-056-B

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GROUP :4

## QUESTION NO 1

**A**

There are 18 instances in the dataset.

**B**

There are 7 input instances in the dataset.

**C**

There are 2 possible output instances in the dataset.

**D**

There are 4 categorical input instances in the dataset.

**E**

Ratio of Male: 0.575

Ratio of Female: 0.425

46 MALE

34 FEMALE

## QUESTION NO 2

**A**

MLP: 12 instances are incorrectly classified.

Random Forest: 1 instances are incorrectly classified.

SVM: 0 instances are incorrectly classified.

## **B**

### **WITH 80/20 SPLIT**

MLP: 7 instances are incorrectly classified.

Random Forest: 0 instances are incorrectly classified.

SVM: 1 instances are incorrectly classified.

## **C**

BEARD and SACRF are the most powerful attributes in given the dataset.

## **D**

### **BY DROPPING BEARD AND SCARF**

#### **MLP:**

15 instances are correctly classified.

2 instances are incorrectly classified.

#### **Random Forest:**

10 instances are correctly classified.

3 instances are incorrectly classified.

#### **SVM:**

13 instances are correctly classified.

3 instances are incorrectly classified.