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GROUP :4

MUAZ IJAZ

SP20-BCS-056-B

**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.

Scarf represents FEMALE while Beard represents MALE.

**D**

**BY DROPING 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.