



Assignment-04

INTRODUCTION TO DATA SCIENCE (IDS)

SUBMITTED BY:

Ahmad Nawaz Khan

CIIT/SP20-BCS-008/LHR

SUBMITTED TO:

Sir Muhammad Sharjeel

ANSWER No.1:

- 1) Total Instances = **80**
- 2) Input Attributes = **7**
- 3) Output Possible Values = **Male, Female**
- 4) Categorical Input Attributes = **4**
- 5) Males = **46** out of 80
- 6) Females = **34** out of 80

ANSWER No.2:

1) Incorrect Classified Instances:

- Random Forest: 0 Instances
- SVC = 6 Instances
- Perceptron = 8 Instances

2) Test Split 80/20:

- Random Forest: 0 Instances (**incorrect**)
- SVC = 3 Instances (**incorrect**)
- Perceptron = 4 Instances (**incorrect**)

3) Most Powerful Attributes:

- Beard
- Scarf

4) Exclude Most Powerful Attributes:

- Random Forest:
 - Accuracy = 93.75%
 - Correct = 15
 - Incorrect= 1
- SVC =
 - Accuracy = 81.25%
 - Correct = 13
 - Incorrect= 3
 -
- Perceptron =
 - Accuracy = 75%
 - Correct = 12
 - Incorrect= 4