

M HASSAAN LATEEF

SP20-BCS-155

Assignment # 4

Question # 1

- i. The dataset contains 80 instances.
- ii. The dataset contains 7 input attributes.
- iii. The output attribute has two possible values.
- iv. Two input attributes are categorical which are Hair Length and eye color.
- v. The class ratio of Male-Female is (46-34) which is (1.4).

Question # 2

Incorrect instances found:

1- Incorrectly classified using standard split:

Random forest = 0

SVC = 6

MLP = 3

2- INCORRECTLY CLASSIFIED BY 80/20 SPLIT:

Random forest = 0

SVC = 3

MLP = 0

3- Excluding attributes:

Scarf and beard are the two most important. They have both consistent values for both male and females. So they are most important.

4- After excluding Scarf and Beard:

Random forest = 1

SVC = 3

MLP = 4

After excluding these two the performance of model decrease.