**Gender Prediction Report**

**Question:1**

1: Dataset contains 80 Instances.

2:

**Question:2**

**1:**

Randomforest accuracy = 100.0

SVC accuracy =77.77777777777779

MLPclassifier accuracy = 88.88888888888889

**2:** After changing the ratio to 80/20 accuracy changes as below

Randomforest accuracy = 100.0

SVC accuracy = 81.25

MLPclassifier accuracy = 100.0

**3:** I think beard and and scarf are the most powerful attributes. Because female don’t have beard at all, so it’s a good attribute to distinguish them from male same as the scarf.

**4:** Lets see, by removing them what is the impact on the prediction.

Randomforest accuracy = 93.75

SVC accuracy = 81.25

MLPclassifier accuracy = 100.0

So, after removing scarf and beard from input, accuracy reduced for the random forest model using 80/20 ratio.

**Question :3**