UNIVERSITY OF ENGINEERING AND TECHNOLOGYLAHORE

NEW CAMPUS

PROJECT REPORT OF EDA DATA-SET 1

EXPLORATORY DATA ANALYSIS DATASET1

SUBMITTED TO:

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SECTION B

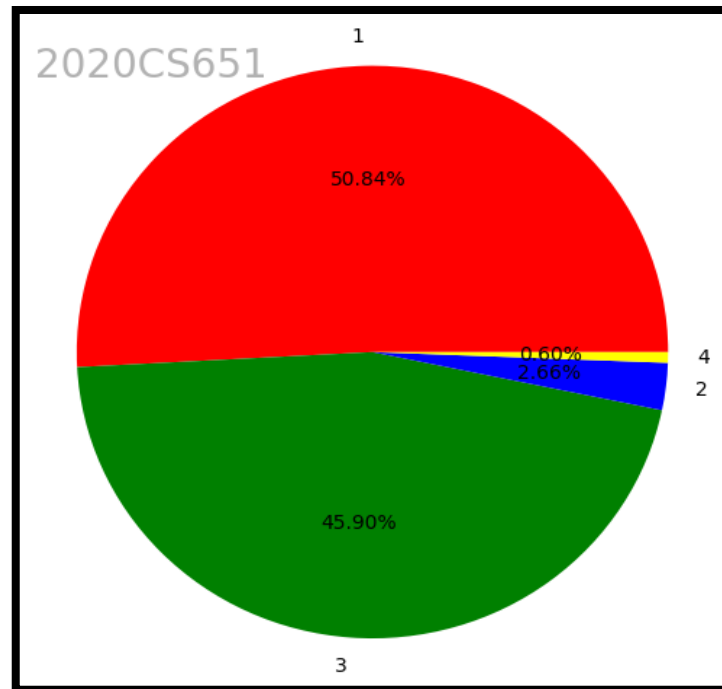**DEPARTMENT OF COMPUTER SCIENCE**

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Fig. 1

Explanation:

This graph is illustrated that how many people have used how many products of the bank.

The pie chart tell us that around 51% of the customers of the bank used only 1 product of the bank. 46% of the total customers used 3 products of the bank. Around 3% of the people used 2 products of the bank and 1% of the total customers used 4 products of the bank.

This chart told us that half of the total customers of the bank only used 1 product of the bank and this product is the most usable product of the bank. 46% of the total customer believes that 3 out of 4 products of the bank is suitable for using.
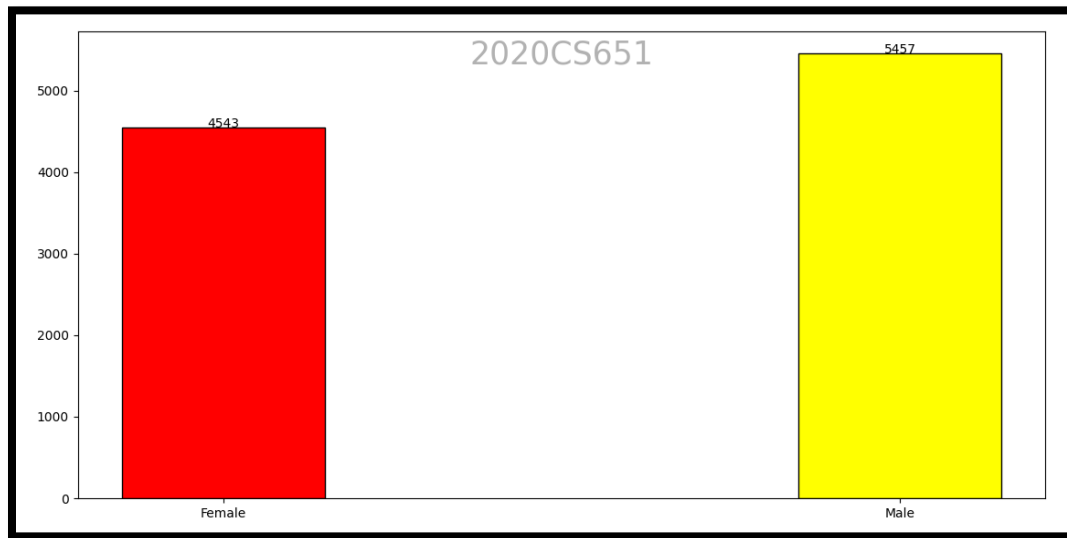
Fig. 2

Explanation:

This bar chart explains the male to female ratio of bank customers.

This bar graph told us that around 4600 of the total customers are female and 5500 of the total customers are male.

This graph concludes that the male ratio of customers is more than the female customers.
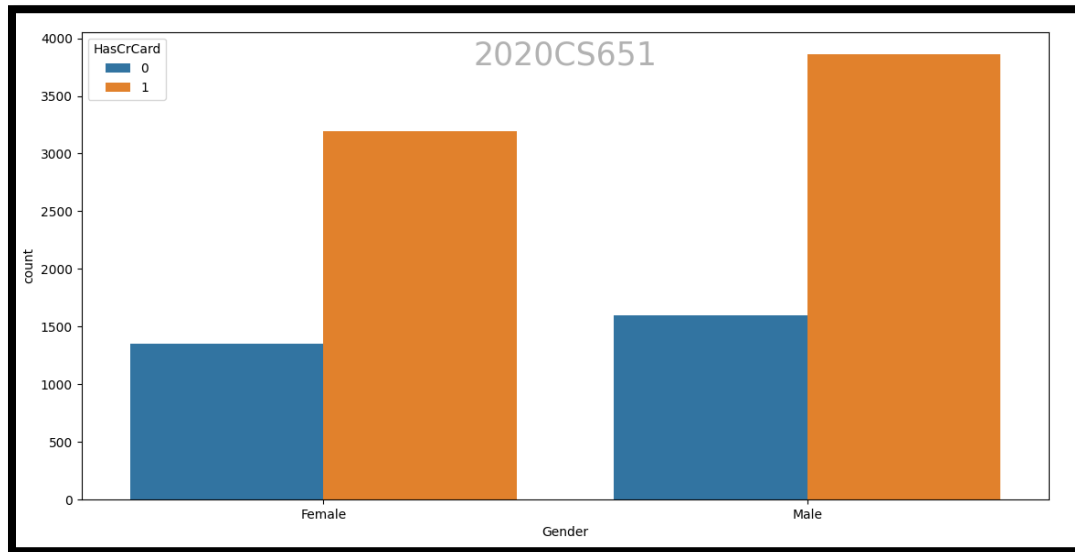
Fig. 3

Explanation:

The above graph illustrated the relation between gender and Credit Card users.

The above count plot told us that around 1200 female customers not used the Credit Card facility of the bank that provides for its customers but around 3300 female customers used the credit card facility of the bank and they felt that the credit card is important for customers for cashless shopping. On the other hand, in Fig. 3 around 1500 male customers not used the credit card facility of the bank but around 3800 male customers used the credit card facility if the bank.

So, we say that around total 2700 customers both male and female not used the credit card facility but 7100 customers used credit card facility.
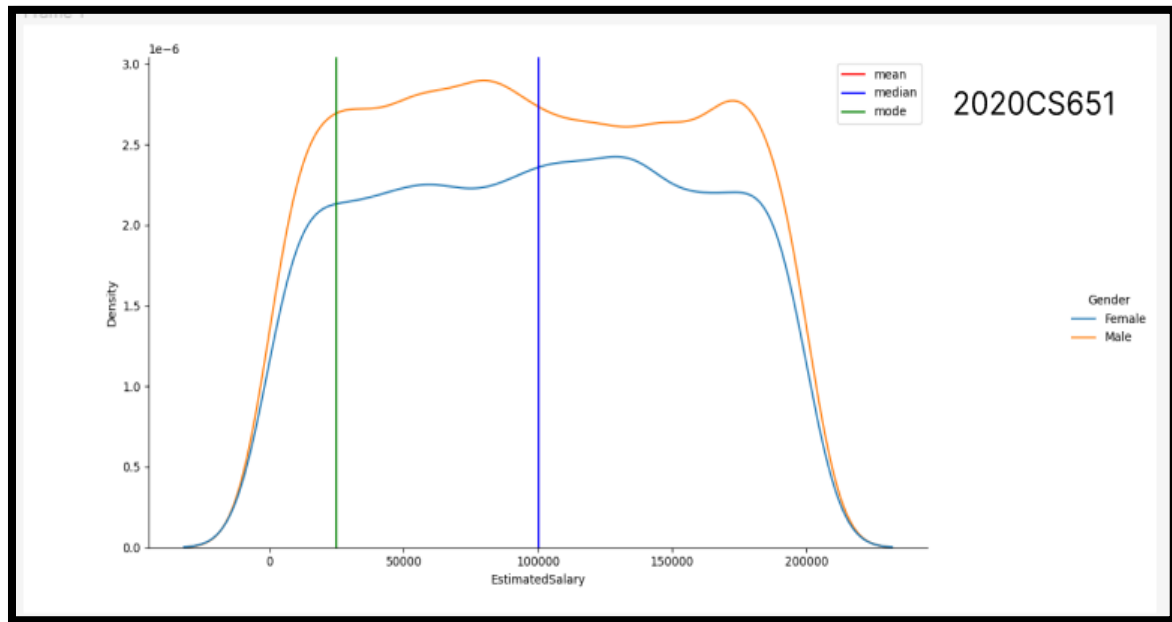
Fig. 5

Explanation:

The above density plot told the relation of estimated salary and gender.

In Fig. 5 we clearly see that the salary of male customers is more than the female customers. The density of male customer's salary is more than female customers but it flactuates between low and high salary. This graph also told us that the average salary of the bank customers is around $100k but $25k is the most frequest salary of the customers.

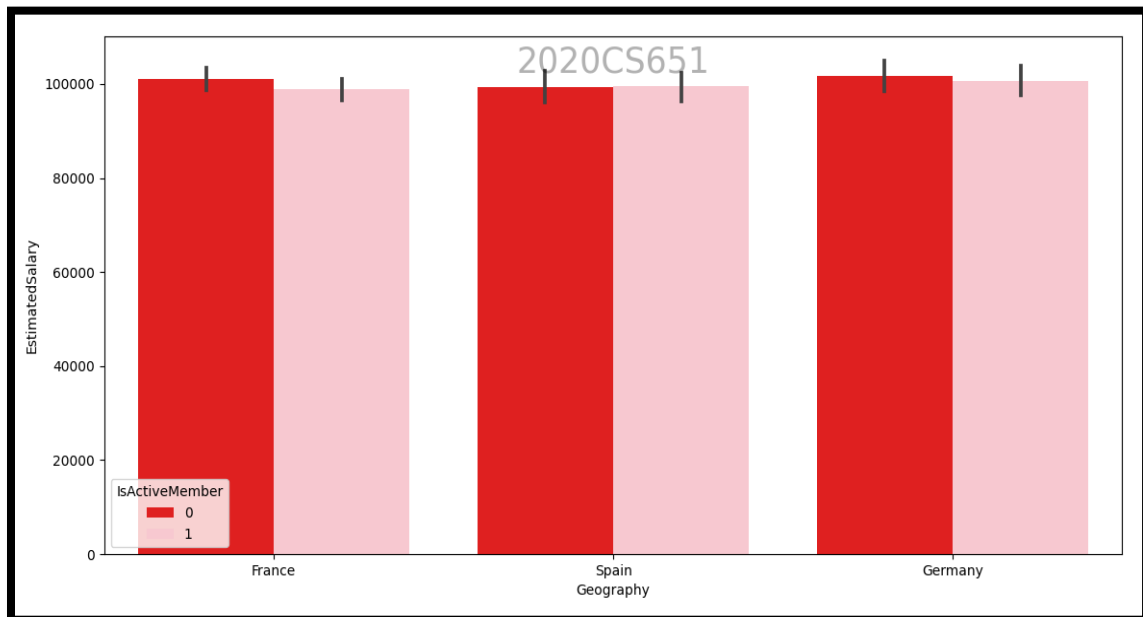So we cleary say that the salaries of male customers is more than the female customer salaries in this bank.

Fig. 5

Explanation:

This multivariate bar graph illustrated the relation that which geographical location customers are active and what are their Estimated Salaries.

The above Fig. 5 told us that in France the ratio of Non-Active members is more than that the Active Members and the estimated salaries of Non-Active Members are more than the Active members. As compared to France, in Spain the ratio of both active and non active members are almost same and also the estimated salaries of both active and non active members are same nothing different. But in Germany, the trend is almost same like France because the ratio of Non-Active members in Germany is more than the active members and the salaries of Non-Active members is more than the Active members same like France.

So, in the end we say that the estimated salaries of Non-Active Members are higher than the Active members in both France and Germany but in Spain the ratio is equally divided.
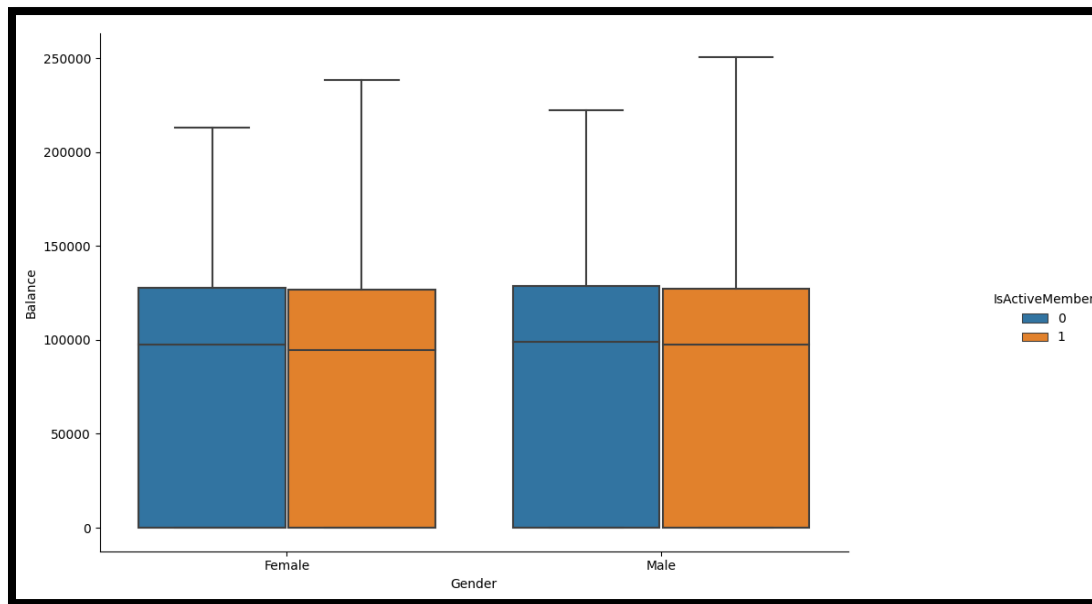

Fig. 6

Explanation:

The above chart shows the Balance of customers according to gender whether they are active member or not. Blue bar represants non active member while orange bar represants active member gender is displayed on x-axis while on the other hand balance is represanted on y-axis.

We can clearly see from the graph that in non active group male average balance is slightly up than female average balance they have very slight difference in them while on the other hand in active member group it is similar to non active i.e. male is dominant on female average balance. Far aside the highest balance can be noted in active member of male group touching $110k while lowest can be observed in active member of female bar reaching $88k.

In conclusion we can clearly observed that average balance of male is slightly higher than female average balance while it is active member or not a active member.