HBC Digital

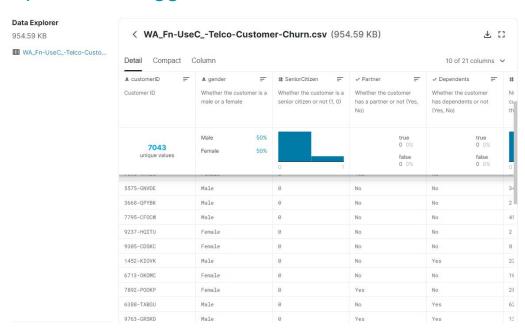
Telecom & Internet Data Analysis Results

By Chanyu Choung



The data samples we used

https://www.kaggle.com/blastchar/telco-customer-churn (Source: IBM)



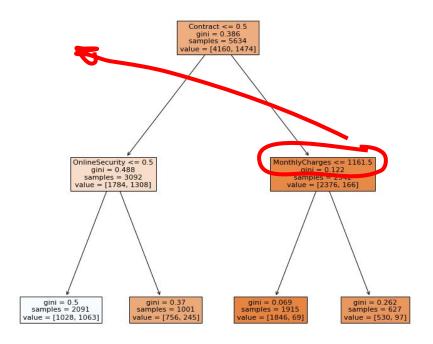


From our initial approach

Outliers ruins the analysis.

70-80% of the customer base are paying less than \$150 USD/mo.

The medians are higher due to the high end outliers are bumping up the average base.





The different entity groups

1. Senior group

2. Family group

3. Company group



Senior target based group

Tenure = # of months they've stayed

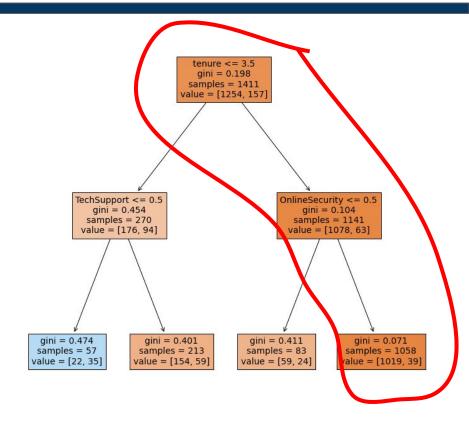
OnlineSecurity = No, No Internet, Yes

TechSupport = No, No Internet, Yes

Prediction: 88% accuracy

The majority of senior group who have been with us for over 4 months and used our online security features.

It's predicted that 97% of people are still in the service.





Family target based group

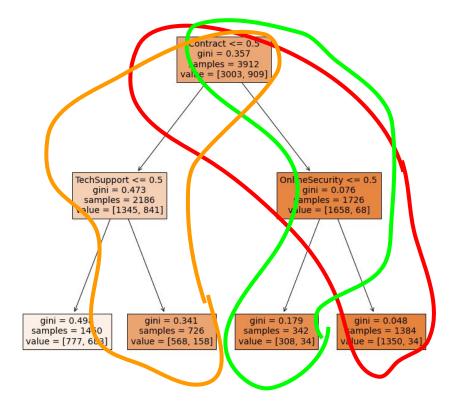
Contract = Monthly, Yearly, Bi-Yearly

OnlineSecurity = No, No Internet, Yes

TechSupport = No, No Internet, Yes

Prediction: 84% accuracy

The majority of family groups are in the service, except the groups showing dissatisfied results are the ones with no tech support service.





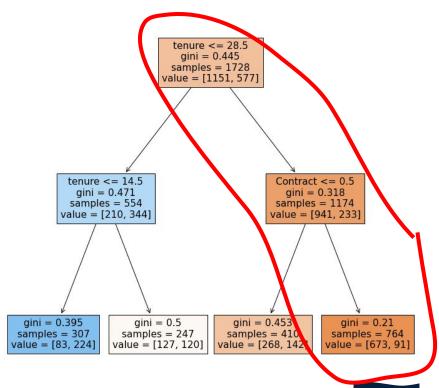
Company target based group

Contract = Monthly, Yearly, Bi-Yearly

Tenure = # of months they've stayed

Prediction: 81% accuracy

Companies or businesses that are loyal and are still in an yearly or bi yearly contract form are the group that won't leave the service.



Conclusion

- Senior group
 - Recommend the online security service.

- 2. Family group
 - Recommend them to use the tech support service.

- 3. Company group
 - Must recommend them to sign an yearly or bi-yearly service contract.

