

Telecom churn case study

Radhika Bantaram

Rhituporna

Anjali

BUSINESS INSIGHTS

- Less number of high value customer are churning but for last 6 month no new high valued customer is onboarded which is concerning, and company should concentrate on that aspect.
- Customers with less than 4 years of tenure are more likely to churn and company should concentrate more on that segment by rolling out new schemes to that group.





Average revenue per user seems to be most important feature in



Incoming and Outgoing Calls on roaming for 8th month are strong indicators of churn behaviour


Local Outgoing
calls made to
landline , fixed line
, mobile and call
center provides a
strong indicator of
churn behaviour.

Better 2G/3G area
coverage where
2G/3G services
are not good, it's
strong indicator of
churn behaviour.

SVM with tuned hyperparameters produce best result on this dataset with 0.92 accuracy.



Random forest also produce good accuracy with 0.91 (default overfit model) and 0.90 with tuned hyperparameters.



As per our analysis SVM and Random forest produce best accuracy and models can be selected to predict churn data for future dataset or production.

The END