

Telecom Churn Case Study

DSC 45



Analysis Approach

Problem Statement

Data Preparation

Feature Correlation

Top Feature affecting Customer Churn

Action Suggested



Problem Statement

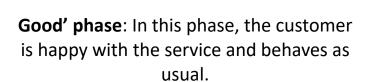
- Predict whether the customer will churn or not in Churn Phase while analysis the Data of customer in Action Phase. Churn to be predicted of High Value Customer as 80% of the revenue is contributed by these 20% of total customer.
- High value Customers are those whose recharge value is greater then 70% of average recharge value Customer data is of period June to Sept, where sept period is of churn phase customers

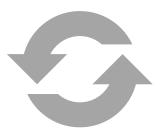


Understanding Customer









Action' phase: The customer experience starts to sore in this phase



The **'Churn' phase:** In this phase, the customer is said to have churned.



Customer Impacting Business



Total Data Available – 99999 Customers



High Value Customers (80% Revenue from 20% of the customer) **70th percentile** of the average recharge amount in the first two months (the good phase).

Data Features





Incoming and Outgoing calls



Roaming Calls



Mobile Internet Usage Volume



Different Service Schemes

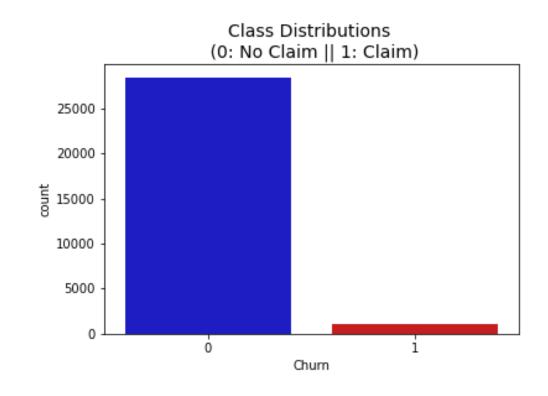


Average Recharge Values



Customer Churn

3.5% Customer Churn in the Month of September





Top 10 Features Impacting Churn

- 1.Roaming calls in the month of Aug
- 2.Local Incoming and Outgoing calls in Aug
- 3.Last recharge in Aug

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roam_og_mou_8
roam_ic_mou_8
loc_ic_mou_8
last_day_rch_amt_8
loc_og_mou_8
total_ic_mou_8
total_og_mou_8
spl_og_mou_7
roam_og_mou_7
Aon
roam_ic_mou_7
spl_ic_mou_6
spl_og_mou_8
max_rech_amt_8
offnet mou 8
```



Action Suggested

- 1.Roaming calls to be monitored continuously and service provided
- 2.In the Action phase only customer reducing the calls to be given attractive offer on their next recharges
- 3.Last recharge amount to be compare to the last 3 months average