Comcast Telecom Consumer Complaints

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Introduction

This is the project report for the Project 3: Comcast Telecom Consumer Complaint" present as part to the "Data Science with Python" course of Simplilearn.

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• Language Used: Python

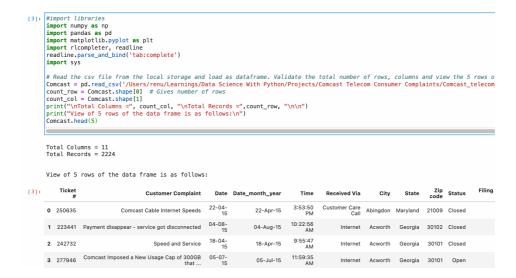
Problem Statement

Comcast is an American global telecommunication company. The firm has been providing terrible customer service. They continue to fall short despite repeated promises to improve. Only last month (October 2016) the authority fined them a \$2.3 million, after receiving over 1000 consumer complaints.

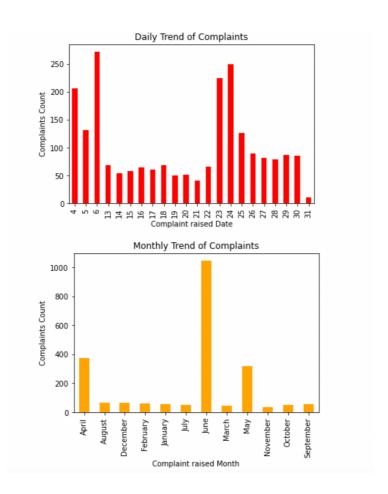
The existing database will serve as a repository of public customer complaints filed against Comcast. Using the dataset, help to pin down what is wrong with Comcast's customer service with the following information

- 1. Provide the trend chart for the number of complaints at monthly and daily granularity levels.
- 2. Provide a table with the frequency of complaint types.
- 3. Which complaint types are maximum i.e., around internet, network issues, or across any other domains.
- 4. Provide state wise status of complaints in a stacked bar chart. Use the categorized variable from Q3. Provide insights on "Which state has the maximum complaints?"
- 5. Which state has the highest percentage of unresolved complaints
- 6. Provide the percentage of complaints resolved till date, which were received through the Internet and customer care calls.

Solution



1. Provide the trend chart for the number of complaints at monthly and daily granularity levels.



2. Provide a table with the frequency of complaint types.

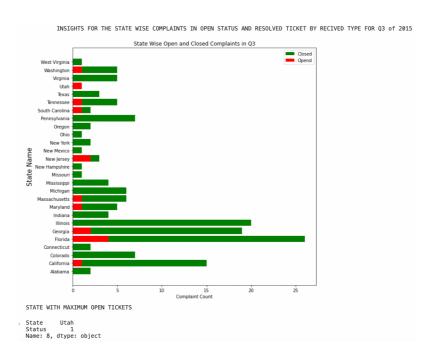
	index	Customer Complaint
0	Comcast	83
1	Comcast Internet	18
2	Comcast Data Cap	17
3	comcast	13
4	Data Caps	11
1836	Comcast Speed and Cap misinformation	1
1837	Comcast bundling of internet and tv services a	1
1838	Improper billing	1
1839	Comcast - Overcharging/Unnecessary Charges	1
1840	Bank Fee Refund Reques	1

3. Which complaint types are maximum i.e., around internet, network issues, or across any other domains.

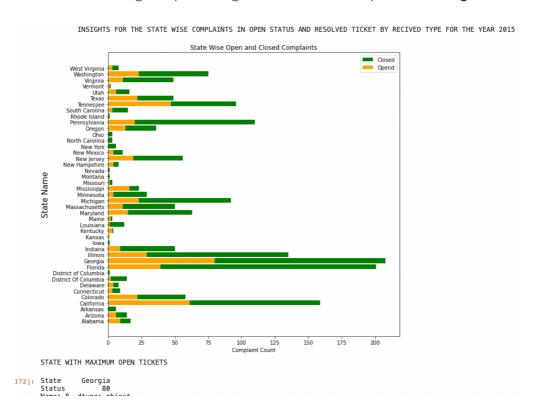
Top 5: Maximum complaints based on Complaint type or Domain:

```
J: Comcast 83
   Comcast Internet 18
   Comcast Data Cap 17
   comcast 13
   Data Caps 11
   Name: Customer Complaint, dtype: int64
```

4. Provide state wise status of complaints in a stacked bar chart. Use the categorized variable from Q3. Provide insights on "Which state has the maximum complaints?" - Utah



5. Which state has the highest percentage of unresolved complaints – Georgia



6. Provide the percentage of complaints resolved till date, which were received through the Internet and customer care calls.

PERCENTAGE OF COMPLAINTS RESOLVED RECIEVED THROUGH INTERNET & CUSTOMER CARE CALLS

[173]: Status Received Via
Closed Customer Care Call 50.62
Internet 49.38
Name: Received Via, dtype: float64

NOTE: The Source code and Snapshots of the result are shared in separate documents.