Exploratory Data Analysis – Housing Cases

**Requirement:**

Please find attached consumer cases(Housing) filed in NCDRC and in all state commissions.

Please do EDA(exploratory data analysis) on this data to find out the following:

1. Self representation

2. Representation through advocate

3. Advocates repeating multiple times

4. Repeat respondent

5. Repeat complainant

6. Case types

**Cleanup Activities performed for EDA**

1. Downloaded the case history based on following parameters from the Confonet

**a.Start Date** :01/01/1970

**b.End Date** :21/11/2018

**c.Case Type** :consumer case(cc)

**d.Category** :Housing

2. Removal of all '-','.' and other special signs in Advocate section and replaced it with blanks

3. Removal of 'NA' from data and replaced it with blanks

4. Identification of blanks in Advocate section (Both 'Complainant-Advocate' & 'Respondent-Advocate') and marked it as 'SELF REPRESENTATION'

5. Advocate values marked with 'IN PERSON','IN PRESON','INPERSON',Inpersnol' were altered to 'IN PERSON'

**Creation of New Features:**

1.New column **'CaseClosedStatus'** has been created based on the following conditions

a**. Date of Next Hearing :** If blank then the case is assumed to be closed

b. **Date of Next Hearing :** If it has a future date then the case is assumed to be in pending status

**No Data for following States:**

1. ArunachalPradesh
2. CircuitBenchUdaipur
3. Meghalaya
4. Sikkim
5. SrinagarBench

**Invalid Input :**

1. CircuitBenchAsansol
2. CircuitBenchKohlapur
3. CircuitBenchNashik
4. CircuitBenchPune
5. CircuitBenchSiliguri

**Queries:**

1. Consumer case search also fetches cases with prefix 'OP' and other prefixes

2. Should we assume the blank values in 'Complainant-Advocate' & 'Respondent-Advocate' section as SELF REPRESENTATION

3. Does the value 'IN PERSON' in 'Complainant-Advocate' & 'Respondent-Advocate' section be considered as SELF REPRESENTATION

4. 'Date of Next hearing' attribute comprises of past date values. What does it mean ?

5. Most of the Respondent cases are self represented !