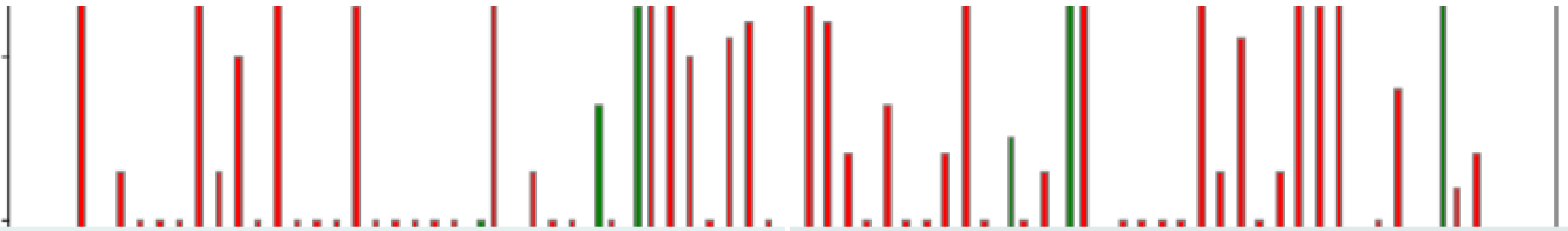
Clean Water and Sanitation

Not a luxury! but a necessity!!



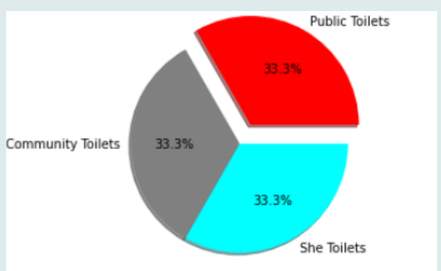
Introduction

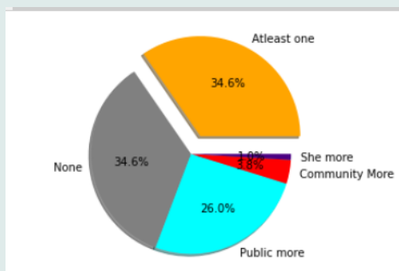
Hello! We are team Analyzers. Our Team Lead is Swetha and members are Vivek, Joshua, and Saketh. We're currently in the 3rd year of our Undergraduation. We strongly believe that clean water and sanitation is not a luxury but a necessity. This made use to choose "Clean Water and Sanitation" problem statement. We mainly focused on different types of toilets and ODF Declared and ODF None Delcared Wards to work.

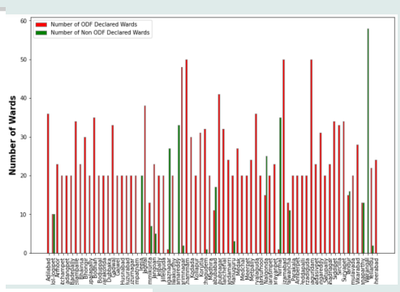
Prompt

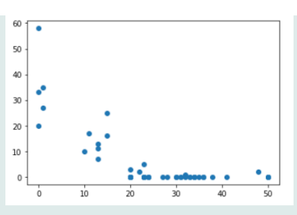
Ours was an open prompt dealing with odf declared and odf non declared wards and there number of toilets comparision.

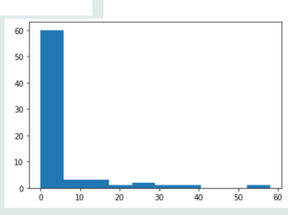
Results

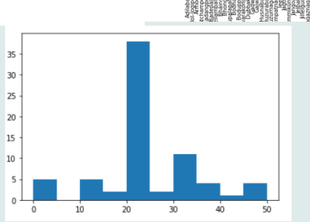












Recommendations

- The Government can work on developing those ULBs which had more ODF Non Declared Wards than ODF Declared Wards for a given ULB towards ODF Declaration.
- We should even build more public, community and She Toilets and collect more data regarding it for further analysis.

Methodology

First, when we checked the data set to start columns with ODF were different and unknown to us. After we knew that ODF Declared Wards are wards that have agreed to Open Defecation Free and planned to have every house a toilet or atleast a nearby public or community or she toilet to use. We are able to draw the ULB's that had ODF Non Declared Wards less than, greater than and eqaul number of ODF Declared Wards. We also measured its different measurements like mean, maximum, minimum, count, etc. We also got the name of the ULB'S that had ODF None Declared Wards=0 and ODF Declared Wards>0 and vise versa of the condition. We visualized with a bar graph for ULB vs ODF Declared, ULB vs ODF Non Declared, ODF Declared vs ODF Non Declared and ULB vs ODF declared and ODF Non Declared Wards. Then we jumped to analyze the first four columns i.e; toilets section. There many boxes were empty so we filled them with 0 assuming that ULB's had no toilets or had them which can't be used. Then we analyzed to draw the ULB's that had atleast one of public, community and she toilets. Then we made comparision like the ULB 's that had maximum public toilets only, community, she and which had no toilets at all. We even vizualized with a pie graph for the before drawn data of ULB's. Then for every ULB we have plotted pie plot showing its toilets percentage. We're able to analyze for only two ULBs while it can be done for remaining as well easily with just a change in index number of our code(we mentioned this clearly in our code). Now, we thought to merge our above drawn data to bring a conclusion. We checked for ULBs that had ODF Declared Wards< ODF Non Declared Wards with its maximum toilets in a category present and the same with ODF Declared Wards>=ODF Non Declared Wards.