SMART CITY RAJKOT HACKATHON-2021

Team Name: White Tigers

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Department: IT

Problem Statement: Data analytics to

provide complete

solution for various

RMC services

Concept and Design

Our concept is to create a dashboard which will help to Rajkot Municipal Corporation in daily life problem by using analytics technique. First, we analyze data will provided by you and after that we perform data cleaning. After that we are ready to do different types of analysis on that data. In this analysis we will use pandas, NumPy, matplotlib etc libraries. For dashboard application we will use plotly dash. In this analysis we provide different types of plot or charts like scatterplot, bar chart, pie chart etc so that user can easily understand. We will also provide filter function so that user can filter that data according to their needs.

Innovation

We will use PLOTLY DASH technology for creating dashboard because user can easily understand by graph or chart. We also use map box for create Rajkot map.

Implement Ability/Sustainability

Here different graphs or plots have their own important.

Scatterplot: Scatter plots' primary uses are to observe and show

relationships between two numeric variables. The dots in a scatter plot not only report the values of

individual data points, but also patterns when the data

are taken as a whole.

Bar Graph: Bar graphs are used to compare things between

different groups or to track changes over time.

However, when trying to measure change over time,

bar graphs are best when the changes are larger.

Pie Chart: Pie charts are generally used to show percentage or

proportional data and usually the percentage

represented by each category is provided next to the

corresponding slice of pie. Pie charts are good for

displaying data for around 6 categories or fewer.

Line Graph: Line graphs are used to track changes over short and

long periods of time. When smaller changes exist, line graphs are better to use than bar graphs. Line graphs

can also be used to compare changes over the same

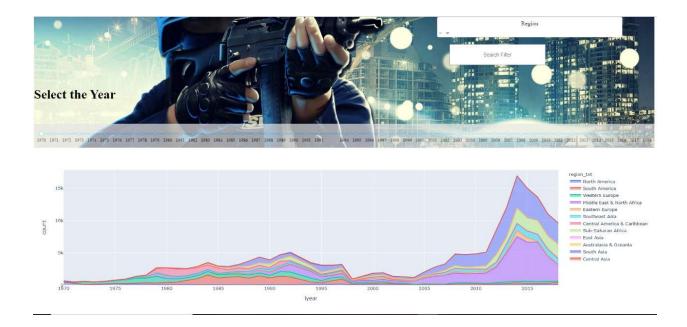
period of time for more than one group.

There are three main ways to speed up Dash apps: caching, using WebGL chart types, and implementing client-side callbacks.

Example: This are some work we have done previously in data analysis.

- 1. https://ipldash.herokuapp.com
- 2. Snapshots of another data analysis website





Public Utility and User Friendliness

We will end up with several (slightly provocative) thoughts on the subject, including practical implications for the work of the requirements engineer.

This subject may seem incredibly "big" for a single article, but it's about the specific nature of usability that we often overlook or confuse. With this appreciation, we'll able to design more effectively, and our website's user ship will be able to grow, too