

Political Visualization for Analysis and Extraction of Exact Information

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Abstract

Web is the place where almost all type of information is available but searching appropriate information on web translates it to well understandable format is the today's need. We know human being can well understand pictorial rather than written so we provide platform which will extract the information of any political person and event using visualization techniques so any one can easily study on Indian politics. There are many areas whose almost information is present on web politics is one. After this still we didn't get proper and visualize (or easy to understand format) information we are trying to develop a system which will try to full fill this need. Visualization of political system of India. Project should be used to extract the information of any political person and event using visualization techniques. It is generally helpful for the 1) Data Analytics Industry, 2) Media Industry and 3) Students who are preparing for Civil Services examination. We try to represent data in graphical format like pi graph, bar graph, chat's, map and many more so the data is easily available with well format. India, with big history, large area and big politics. According to area wise political information is not available on web where we get all details related to Indian politics so our product is one stop for those who need this info with minimum efforts.

Keywords: Data Visualization, Data Analytic Industry, Visualization techniques, Web Data Visualization Systems (IVM), JSON, AngularJS Language

I. INTRODUCTION

As the involvement of web, the web site pays more attention on the interactivity of web page, which will bring better user experience. Visualization techniques have the capability to strengthen interactivity by providing graphic and interactive data explore interface. This paper takes the web data visualization as our focus of attention. By creating three dimensions, the Function and Implementation aspect of web data visualization are fully presented. The Function dimension is based on IA2.0 and the Implementation dimension is based on B/S mode. Then prototype web data visualization systems (IVM) are presented to illustrate the usability of our view.

Never before in history has data been generated at such high volumes as it is today. Exploring and analysing the vast volumes of data is becoming increasingly difficult. Information visualization and visual data mining can help to deal with the flood of information. The advantage of visual data exploration is that the user is directly involved in the data mining process. There are a large number of information visualization techniques which have been developed over the last decade to support the exploration of large data sets. In this paper, we propose a classification of information visualization and visual data mining techniques which is based on the data type to be visualized, the visualization technique, and the interaction and distortion technique. We exemplify the classification using a few examples, most of them referring to techniques and systems presented in this special section

Basic goal is to visualization data of political system of India. Project should be used to extract the information of any political person and event using visualization techniques so any one can easily study on Indian politics. There are many areas whose almost information is present on web politics is one. After this still we didn't get proper and visualize (or easy to understand format) information we are trying to develop a system which will try to fulfill this need.

II. LITERATURE REVIEW

A. Visualization

Visualization is the graphical presentation of information, with the goal of providing the viewer with a qualitative understanding of the information contents. It is also the process of transforming objects, concepts, and numbers into a form that is visible to the human eyes. When we say “information”, we may refer to data, processes, relations, or concepts. Here, we restrict it to data.

B. Data visualization

Data visualization is all about understanding ratios and relationships among numbers. Not about understanding individual numbers, but about understanding the patterns, trends, and relationships that exist in groups of numbers. From the point of user understanding, it may involve detection, measurement, and comparison, and is enhanced via interactive techniques and providing the information from multiple views and with multiple techniques.

C. Why do We Do Data Visualization?

To see and understand pictures is one of the natural instincts of human, and to understand numerical data is a year’s training skill from schools, and even so, a lot of people are still not good with numerical data. From a well-drawn picture, one is much easier to find the trends and relations. Because visual presentation of information takes advantage of the vast, and often underutilized, capacity of the human eye to detect information from pictures and illustrations. Data visualization shifts the load from numerical reasoning to visual reasoning. Getting information from pictures is far more time-saving than looking through text and numbers that’s why many decision makers would rather have information presented to them in graphical form, as opposed to a written or textual form. Another thing we should mention is that: data visualization is NOT scientific visualization. Scientific visualization uses animation, simulation, and sophisticated computer graphics to create visual models of structures and processes that cannot otherwise be seen, or seen in sufficient detail. While data visualization is a way that present and display information in a way that encourages appropriate interpretation, selection, and association. It utilizes human skills for pattern recognition and trend analysis, and exploits the ability of people to extract a great deal of information in a short period of time from visuals presented in a standardized format.

D. Existing System

Information of political system of India is available at different online sources. But available information is available in textual form. Graphical analysis is not available.

III. METHODOLOGY

A. Creation of Web Portal using Bootstrap Techniques[3]

Need to build the web portal which is completely built in Bootstrap and AngularJS.

Web portal requirement - 1) Home page should contain the visualization graphs and menus. 2) Project should be Single Page Application (SPA) using AngularJS Language. 3) Priority on performance and look.

B. Graphical Widgets

We will have access to input files in JSON/Excel/XML format. These files will be input to your project. But which input file to choose is decided by the details provided in database. We need to create graphical widgets using the data provided in the JSON files. All graphical widgets should be designed in d3js / Google chart library.

C. Visualization graphs generated by tool is used to analyze [4]

- 1) Geographical distribution of Politician.
- 2) Statistical information of election details.
- 3) Party wise.
- 4) Year wise.
- 5) Political party migration.
- 6) Election won/loss related information.
- 7) Tracking of assets and criminal case information.
- 8) Political Alliance and Visualization of Political affairs.
- 9) Visualization of start and end of political career.

Crazy facts visualization such as:

- 1) Victory with small or large margin.
- 2) Younger Politician to contest election etc.

- 3) Visualization of Prime minister and Cabinet.
- 4) Information Visualization for each politician.
- 5) Visualization Seat wise.

IV. CONCLUSION

Hence project will visualize data of political system of India. Project will be used to extract the information of any political person and event using visualization techniques.

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