PROJECT REPORT

Introduction:

Data visualization is the simplest way of discovering meaningful incite from data. Literally the raw and huge data are difficult to interpret manually in text, excell, jason, csv or pdf format. The task is tedious also.

When we talk about insurance data, they are very important and sensitive themselves influencing correct business decision. When we transform them into visual model, the decision making task becomes very easy.__

About Data:

Insurance data collected from Government sources for the project are of academic interest. The data contain useful information about the income earned by insurance company on different heads of source like premium, interest on income, different receivables etc. In contrary data also contain information about how income are utilised as outgoing expenses to equalise asset and liability. Those data cover year 2001 to 2015.

Methodology:

This foundation project is totally based the knowledge I gathered from 5 days boot camp session organised by Smart Bridge in collaboration with Tableau USA. The sessions were resourceful having crystal clear guidance about principal of data visualisation, science of using data in doing same, methodology, tools, technology and hand on activity.

Utility material for this data visualisation project is th raw data on Life insurance income & outgoing expenses collected through https://smartinternz.com/student-login from https://data.gov.in.

Steps followed are below-

1. Access to https://smartinternz.com on student log-in created by self for the project.
2. Collection of Insurance revenue data in comma separated values file which I opted for this challenge.
3. Verification of all features with corresponding values ie dimensional and measured data
4. Installation of tableau desktop professional edition software and its activation with the key provided from smartbridge. It is worthwhile to note that the software installation was completed on strength of regular email & whatsApp communication early before boot camp session started.
5. Creation of new Tableau book1 file for the project in the software installed.

6. Feeding insurance revenue data and connecting it to book1 as text file for csv extension.
7. Apply different visualisation aspect like bar chart, pi chart, trends, packed bubble on data etc.
8. Finally creation of dashboard followed by scripting story in visual form on insurance income & outgoing expenses.
9. Generation of pdf file and shooting short video about how project was delivered for upload in Github.
10. To sign up & make entire visualization task public in Tableau public portal.
11. Documentation, writing report on project, uploading works as guided by mentor, review and update of planning and schedule to reflect progress in the system.

The project work in detail is available in below link to have a glimpse about how meaningful incites are extracted in visual form for knowledge discovery.

Insurance Revenue Analysis For The Yrs 2001 -2015 - MANAS KUMAR PATRA | Tableau Public

Challenges:

The challenges for this project was a bit odd nature of data which is quite different from that used during boot camp session. But its Tableau's strong analytical strength that enabled to overcome the data manipulation issue.

Conclusion:

Improving day to day performance of business of an organisation heartily invite various tools to correctly analyse data, parse and ruminate them to get the best taste of fruitful decision.

Tableau visualization tool has that much capacity to transform data that leads to terrific business intelligence (BI). The work carried out with the help of Tableau was an effort to reflect those attributes as much as possible.

We shall strive to call various regression, classification and clustering model inbuilt in Tableau software on applicable continuous time series and categorical data in due course of time for upcoming work on the way.

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