ISB CBA Batch 6 – Data Visualization Project Proposal

Group Name : Data crunchers

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With the Given DISE dataset, we will explore and analyse the data and create 3 Tableau dashboard for the Human Resource Development Ministry and Education Ministry

**Data Munging/Data Wrangling**:

As the data is unstructured i.e., data is present at horizontal level, perform data munging/data wrangling to clean the data and extract whatever is required for visualization.

**Target Audience**:

I). The key regulators of Government of India, Prime minister of India and HRD (Human Resource Development of India) Ministry.

II). Other Enthusiastic of Indian Education system to find the gaps.

**External Data**: The data from UNICEF.

**Dashboards**:

1. Performance of INDIA at Global level

By comparing the Global Enrolment Ratio(GER) of all the countries, indicate where India stands as a whole and Compare the India performance with peers of Asian region.

Motivation:

To Identify where India stands at global level and accordingly the actions can be taken as the Education of the major economic growth indicator.

Data Source:

The Source of the data is from UNICEF, which is external Data.

Data Insights:

Group/Cluster the Countries based on the performance of the countries.

Possible Charts:

Map

Bar Chart

Tree map

Line chart

Additional Information:

GER = number of actual students enrolled / number of potential students enrolled.

The gross enrolment ratio can be greater than 100% as a result of grade repetition and entry at ages younger or older than the typical age at that grade level.

1. Pupil to Teacher Ratio(PTR)

By comparing the Pupil to Teacher Ratio(PTR) of India at country, region and state level. Bring out the insights of the nation to concrete on respective region or state.

Motivation:

Student to teacher ratio is one of the potential indicator in education system. To give individual attention to students and nurture their careers to make any great nation.

To Identify Which Region or State is poor in terms of Pupil to Teacher Ratio(PTR). Data Source:

The Source of the data is from DISE School data after data munging.

Data Insights:

Group/Cluster the states based on region. India, Region and State level insights.

Possible Charts:

Map

Bar Chart

Tree map

Line chart

Time series

Additional Information:

The Right to Education Act mandates a pupil teacher ratio (PTR) of 30:1 for all Indian schools in order to ensure that children learn better in the classroom.

1. Drop-Out Ratio

Find the trend in data to focus on the specific region/state/district in terms of drop out of students. So that corrective actions can be taken accordingly.

Motivation:

Students dropping out of schools is one of the potential rendering hurdle for any nation to grow.

Source:

The Source of the data is from DISE School data after data munging.

Data Insights:

Group/Cluster the states based on region. India, Region and State level insights.

Possible Charts:

Bar Chart

Tree map

Line chart

Time series