**Introduction**

Title: The Story of the Spread of COVID-19

Covid-19 a year ago completely affected our normal lives. We still remember that the situation of the pandemic in China was worrying first, then the epidemic in the United States increased rapidly, and later it became more and more intense in India. Through this dataset, I want to explore how the development of this epidemic has reached the present situation step by step, which more than 139M people have been diagnosed worldwide

**Analysis**

In the story, Quick table calculation function helps that slide 1 ranks by the number of people diagnosed with COVID-19 in each country on the left, and by using ‘calculation 1’ to calculate the cumulative proportion of the number in each country, it shows that the number in the United States and India as of the end of February 2021 has exceeded 40% of the global number. It is worth notice that this group of data is accumulated data, so I directly select the data of the last day of the data group in the filter.

In slide 2, I plotted two sets of growth curves, which are dual-axis, based on the number of confirmed cases and the number of deaths, hence I can easily get two different time periods during the pandemic, which are Jan-Feb 2020 and Mar 2020 – Feb 2021.

In slide 3, I simply compared the number of people infected with the virus in China with that in the world from January to February 2020.

For slide 4, still from January to February 2020, I select the five most severely affected provinces based on ‘calculation 2’ and use the ratio of the confirmed cases to indicate Wuhan, Hubei, which is located at the center of the storm. Also, the annotation remarks what are they very clearly.

In slide 5, the map graph is better way to show the approximate diagnoses and deaths of the current pandemic in various US states.

In slide 7, the five most affected states in the US are grouped that two parts are separated shown as in the graph, which is able to give the audience an approximate growth trend in comparison between the top 5 states and other states.

Other slides is accomplished by a method similar to the above, therefore I would not discuss them repeatedly.

**Conclusion**

Through the visualization of China, it is found that although the world was at a loss when the COVID 19 appeared, the lockdown in Wuhan and the intensity of policy implementation are some effective ways to block the spread of the virus. Unfortunately, this method only applies to China. In addition, from the visualization of the United States, the more populous states, the more people will be infected, and the diagnosis rate in places that are not restricted will increase significantly too. A few months later, India has shown us that the proportion of confirmed cases in the top 5 provinces without prevention can be much larger than the ratio of the population in the same area, especially in a country with high population density.

In fact, we can see that as we step into 2021, the growth curve in slide 2 moves slow slightly as mass vaccination begins. I hope the day of vaccinating all the people and not wearing masks will come soon.

**Appendix**

Bar chart

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**Slide 1**

Graphical user interface

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**Calculation 1**

Map

Description automatically generated

**Slide 4**

Graphical user interface, application

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**Calculation 2**

Chart, timeline, bar chart

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**Slide 7**