### COVID 19- ANALYTICS DASHBOARD USING IBM COGNOS

**Mini Project Report**

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**INTRODUCTION**

* 1. **Overview:**

Coronaviruses are a large family of viruses which may cause illness in animals or humans. In humans, several coronaviruses are known to cause respiratory infections ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS). The most recently discovered coronavirus causes coronavirus disease COVID-19 - World Health Organization.

The number of new cases are increasing day by day around the world. This dataset has information from the states and union territories of India at daily level.

* **Covid-19 India**
* **Percentage of Confirmed Cases of Top 10 Affected States**
* **Top 10 State Wise No of Confirmed Cases**
* **Statistics of Chosen State**
* **Monthly Analysis**

**1.2 Purpose:**

* As per this the purpose of our project we will be analyzing some important visualizations, creating a dashboard and by going through these we will get most of the insights of COVID 19 in India.

**LITERATURE SURVEY**

**2.1** **Existing Problem:**

Determining the best material for covid-19 analysis is a difficult task for a human as he has to consider different number of parameters and come up with a conclusion. Once

the visualization is difficult to analyze the data and find who is effected,confirmed,deaths etc……

It is quite difficult for a human to work with such a huge and typical data. So here we are coming up with a solution.

* 1. **Proposed Solution:**

Ibm cognos analytics dashboard can end up with the best solution for every visualization problem. So here we are going to use the rich set of Ibm analytics dashboard to Visualize the data in easy way.

By using the Visualization in dashboard we can analyze the any analysis the any data.

**THEORTICAL ANALYSIS**

**3.1 Block Diagram:**

**IBM CLOUD ACCOUNT**

**LOGIN TO COGNOS ANALYTICS**

**LOADING THE DATASET INTO IBM COGNOS DASHBOARD**

**DATA VISUALIZATION CHARTS**

* **COVID-19 INDIA**
* **PERCENTAGE OF CONFIRMED OF TOP 10 AFFECTED STATES**
* **TOP 10 STATE WISE NO OF CONFIRMED CASES**
* **STATISTICS OF CHOSEN STATE**
* **MONTHLY ANALYSIS**

**DASH BOARD CREATION**

**EXPORT THE DASHBOARD**

# SOFTWARE SPECIFICATION:

|  |  |
| --- | --- |
| REQUIREMENT | SPECIFICATION |
| IBM ACCOUNT | You must have an account in Ibmprior to begin. |
| Ibm cognos analytics dashboard | 1. Contains Different Visualization 2. One should Launch the cognos analytics dashboard |
| Web browser | For all Web browsers, the following must be enabled:   * cookies * JavaScript |

**Hardware Specifications:**

|  |  |
| --- | --- |
| **REQUIREMENT** | **SPECIFICATIONS** |
| Operating system | Microsoft Windows  UNIX  Linux® |
| Processing | Minimum: 4 CPU cores for one user. For each deployment, a sizing exercise is highly recommended. |
| RAM | Minimum 8 GB. |
| Operating system specifications | File descriptor limit set to 8192 on UNIX and Linux |
| Disk space | A minimum of 7 GB of free space is required to install the software. |

**EXPERIMENTAL INVESTIGATIONS:**

**Analysis or the investigation made while working on the solution:**

**While working on the solution we investigated on what is covid-19 analysis, IBM cloud, IBM Watson studio, Ibm cognos service, Cloud Object Storage. The key role on investigation is collection of dataset.**

**IBM Cloud Account**:

**IBM Acquired soft layer, a public cloud platform, to serve as the foundation for its IaaS offering. In October 2016, IBM rolled the soft layer brand under its Blue mix brand of PaaS offerings, giving users to access both IaaS and PaaS resources from a single console. IBM cloud provides a full-stack, public cloud platform with various products in the catalog, including options for compute, storage, networking, end to end developer solutions for app development, testing and deployment, security databases, and cloud native services.**

**Creating the IBM cloud account by going to the IBM cloud login page and click create on IBM cloud account. Enter our IBM id and an ID is created based on the email that we enter. Completing the remaining fields with our information and click create account by this the account is created.**

**Dataset collection**:

**The data collection on Covid-19 analysis by:**

* **Articulate the problem early.**
* **Establish data collection.**
* **Check our data quickly**.
* **Reduce data.**
* **Take the required fields of data**

**FLOW CHART:**

**IBM ACCOUNT**

**LOGIN TO COGNOS ANALYTICS**

**WORKING WITH DATASET**

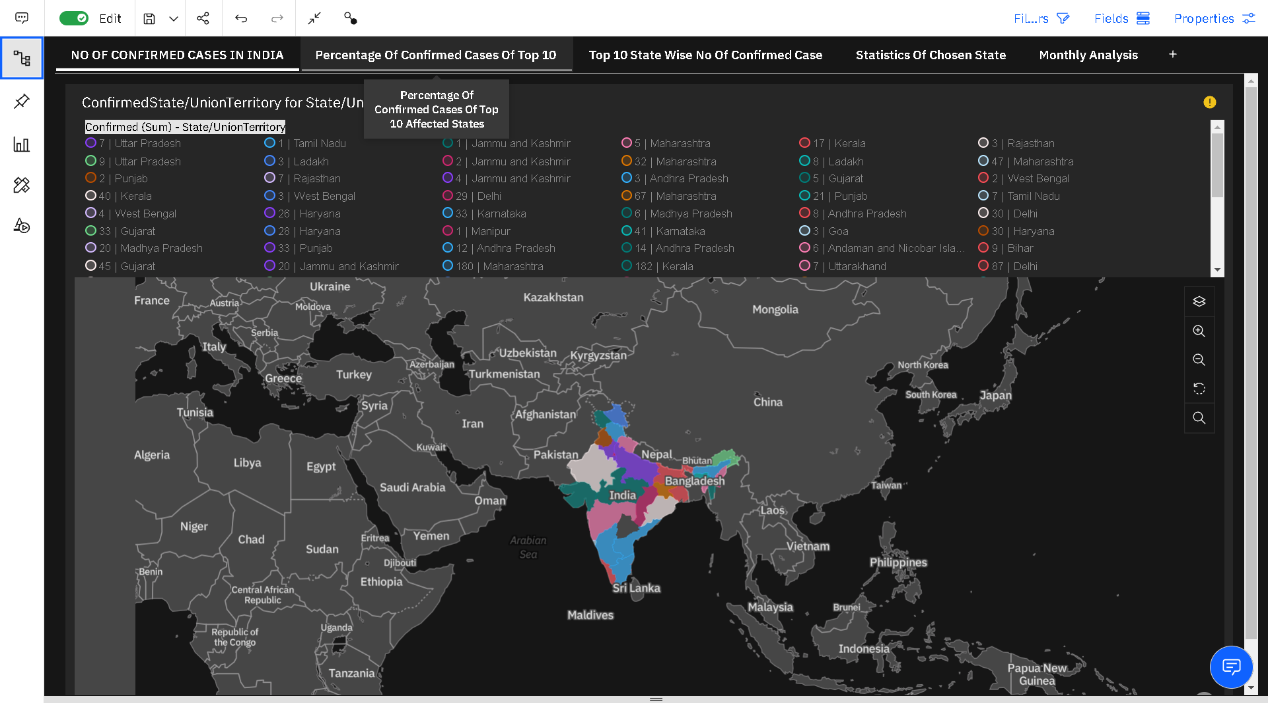
**DATA VISUALIZATION CHARTS**

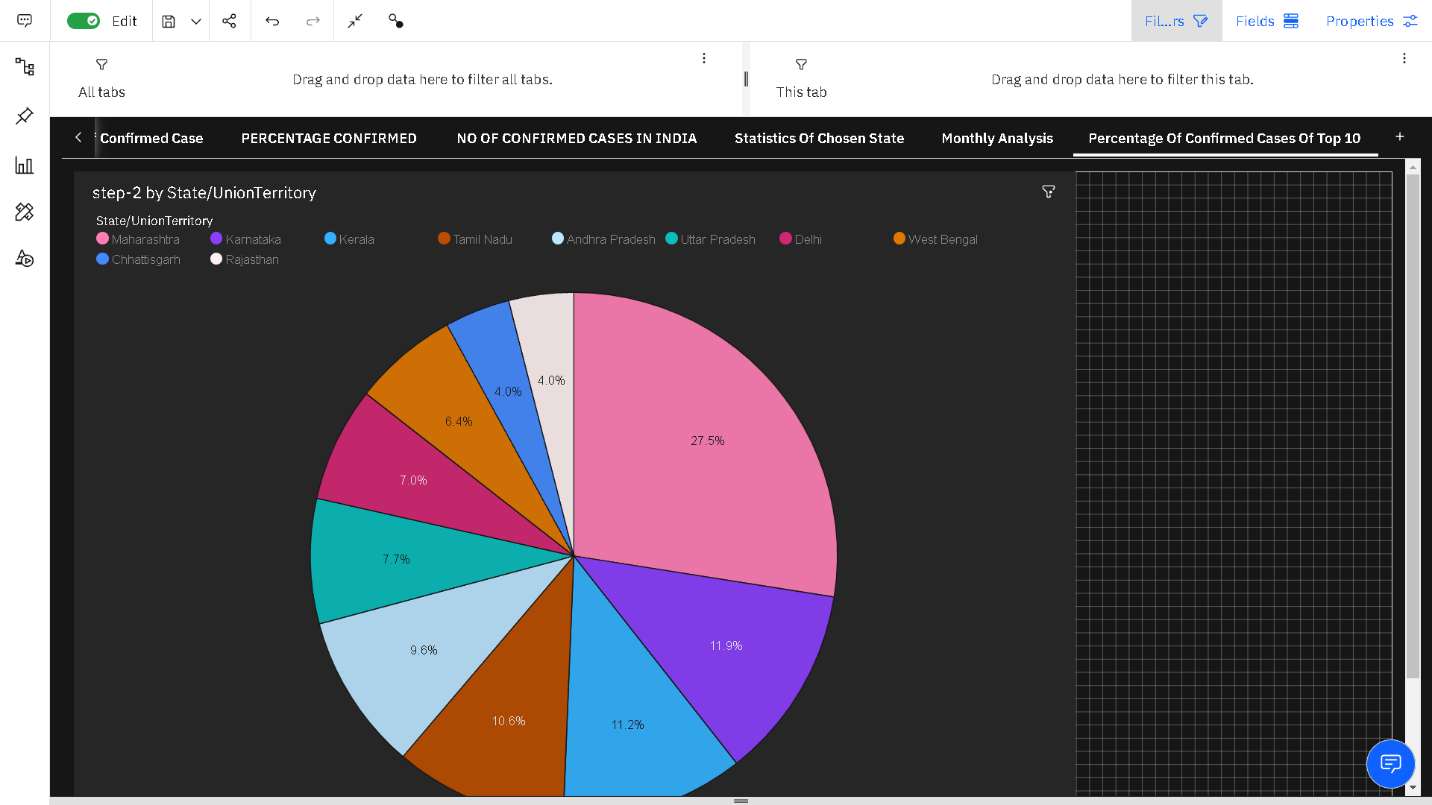
**DASHBOARD CREATION**

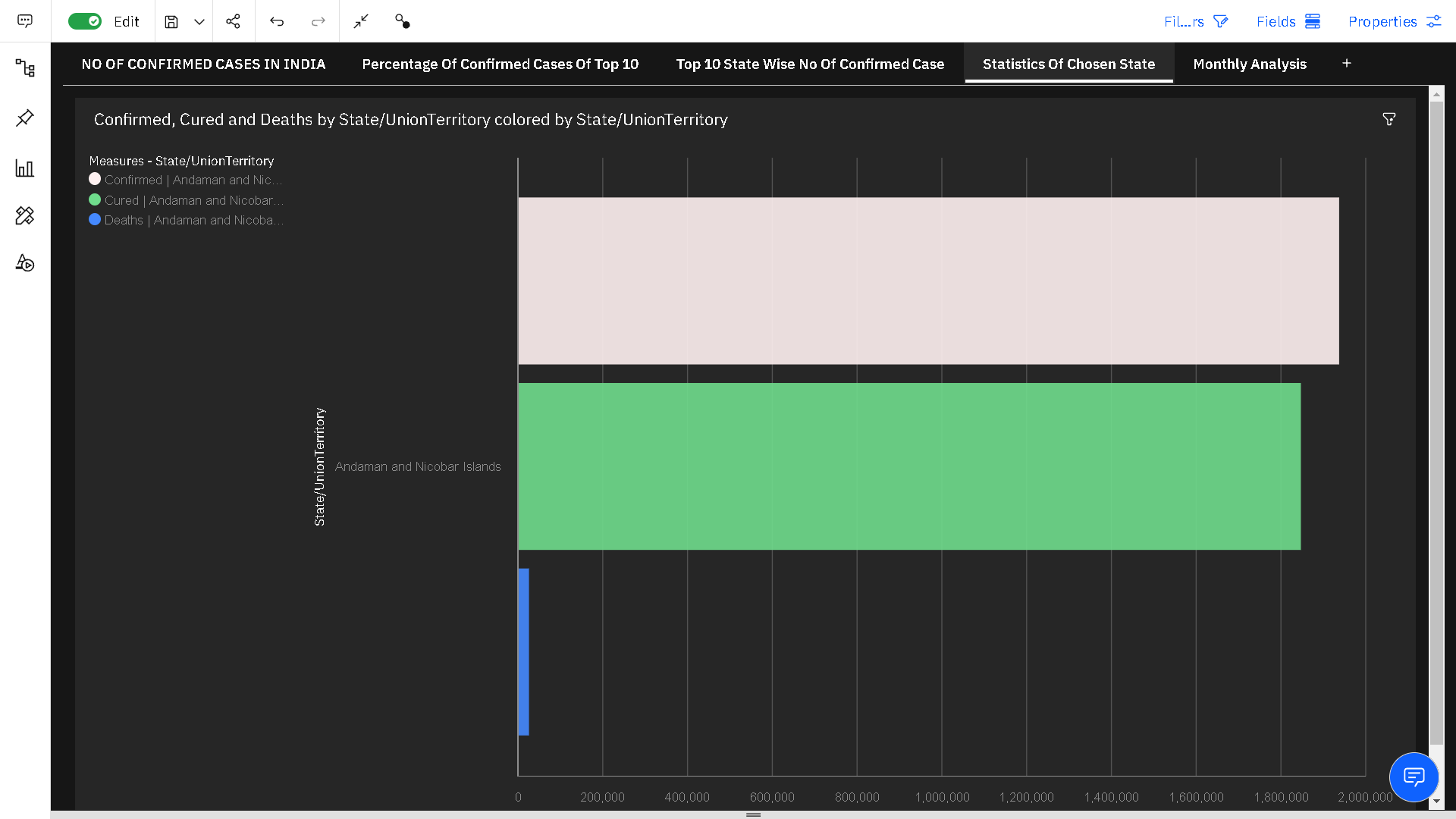
**EXPORT THE ANALYTICS**

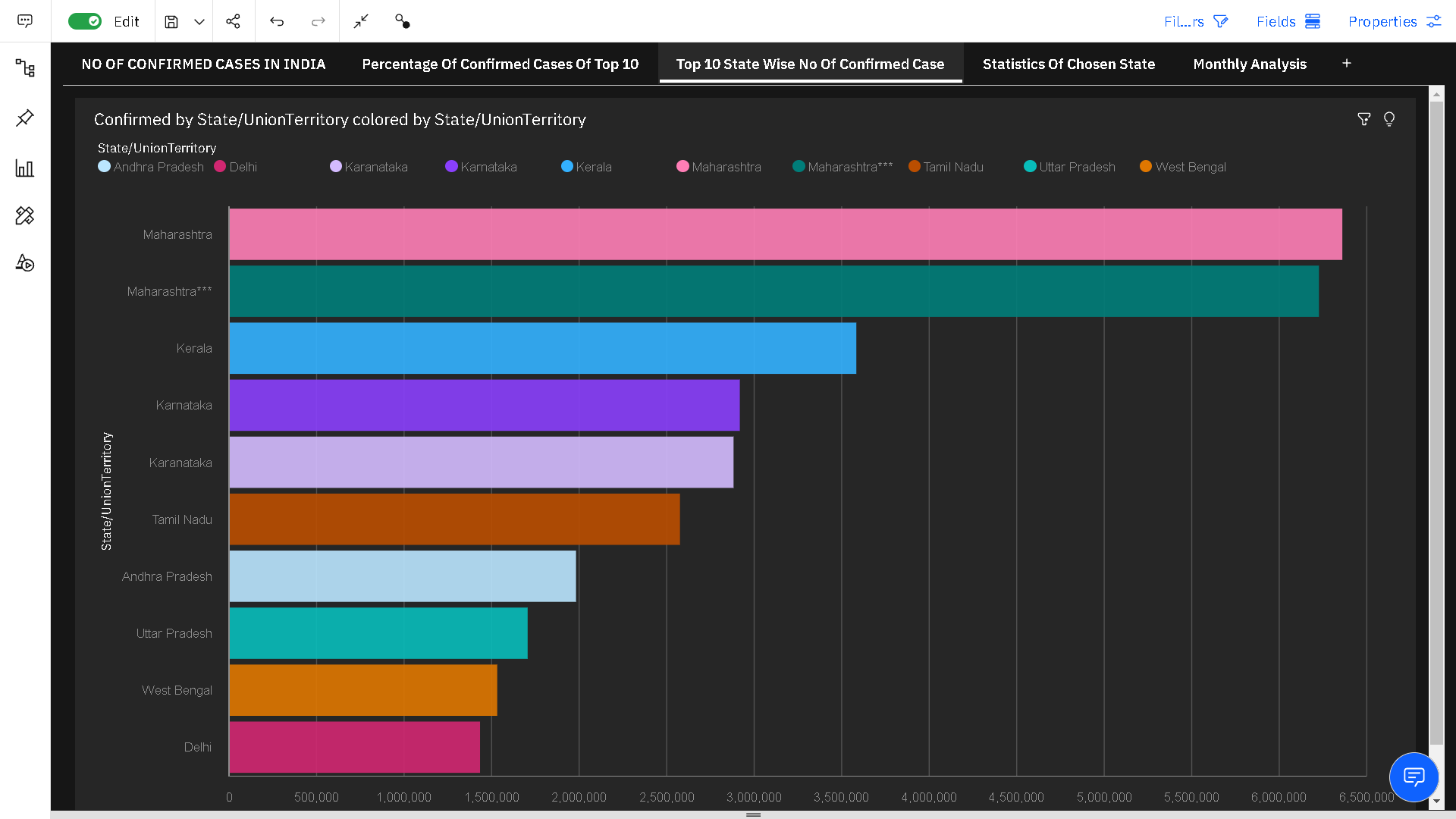
**RESULTS:**

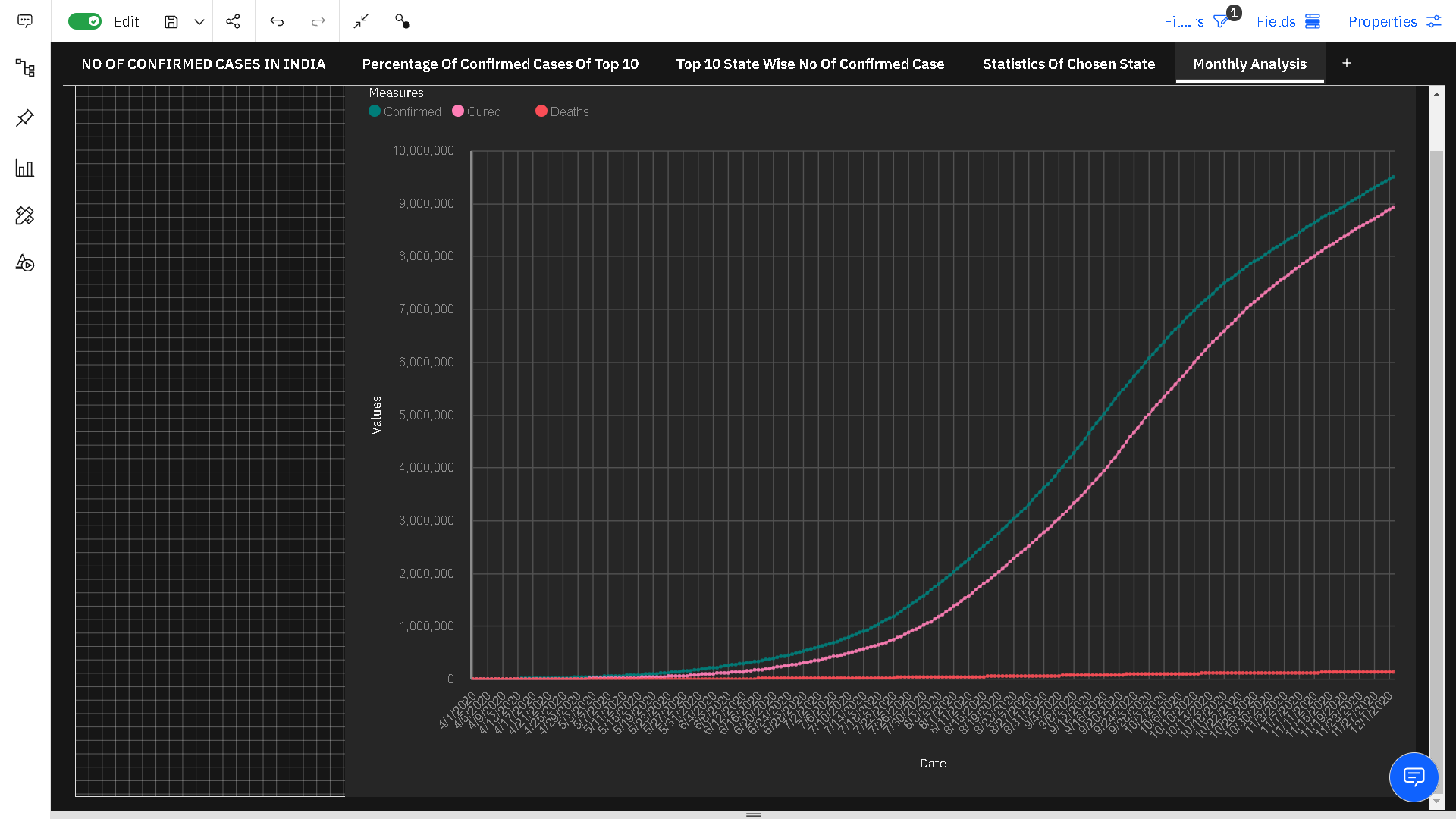
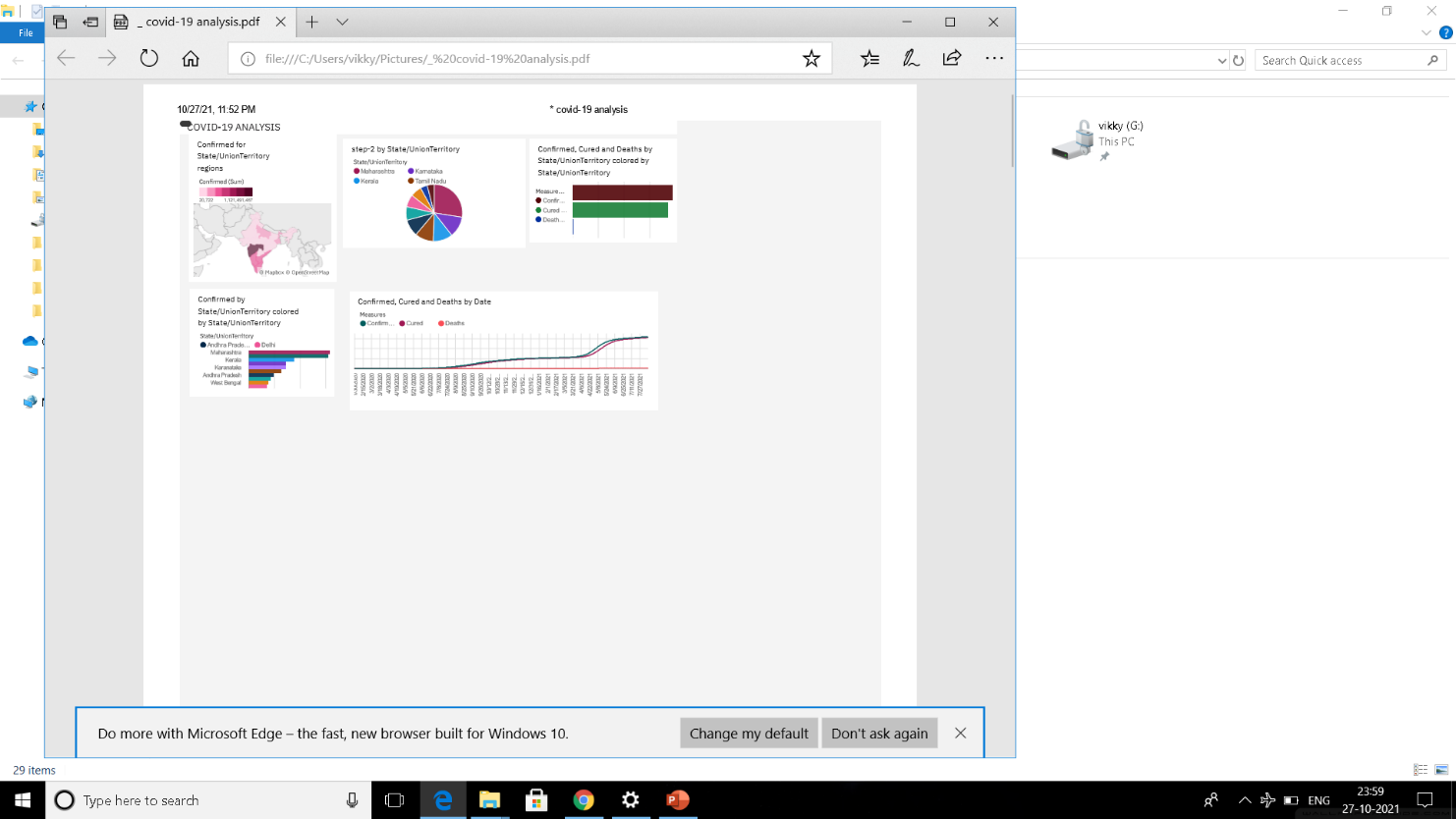
**Final output of the project:**

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ADVANTAGES AND DISADVANTAGES:

Advantages:

* **Lower costs - reduces maintenance due to complete report coverage and a zero-footprint environment.**
* **Faster results - shortens reporting time due to seamless integration and adaptive authoring.**
* **High performance data access across all source.**

Disadvantages:

* **The permission level for a user cannot be modified**
* **Data grouping**
* **Custom visualizations**
* **Insights in visualization**

-APLLICATIONS:

**The areas where this solution can be applied:**

* **Covid-19 analysis using Ibm cognos Dashboard**
* **The Visualization can be done by using visualization tools**.

 CONCLUSION:

**From this entire findings we know fundamental concepts and can work on IBM COGNOS .**

* **Gain a board understanding of Visualization.**
* **Learn to build stunning models on IBM cloud.**
* **To create data visualizations to understand.**

FUTURE SCOPE:

**Enhancements that can be made in the future:**

* **This model can be further developed to suggest an any analysis can be done by using Ibm cognos dashboard .And covid-19 analysis were done by this Visualization based on the input parameters.**
* **We can scope the better job in future with easy experience.**

BIBILOGRAPHY

**References of previous works or websites visited/books referred for analysis about the project, previous solution findings**

[https://publichealthmdc.com/coronavir...](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbjFJdEgxZmczUHJGRjYxalktVG1kX0wyT0RUUXxBQ3Jtc0tsWWUySWpycUcwbjJEN1c3ZlVXSEdtOHlyMWk4ZWV1Mks1bU5ySXNSS1BaVy1vdVVrQUpIUW4wX1JJT2tMYkljWThrZzcyeXk5bF9SY2FUMHNXX2ZzOGlBdmRPSW5kQkYwU05yXzQ1WUZDa3dvenhSQQ&q=https%3A%2F%2Fpublichealthmdc.com%2Fcoronavirus%2Fdashboard)

APPENDIX:

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