COVID-19 Cases Analysis Project with IBM Cognos

Introduction

Briefly introduce the project and its purpose.
Mention the importance of data analysis in understanding and managing the COVID-19 pandemic.

Analysis Objectives

Define the specific objectives of the analysis. What insights are you looking to gain from the COVID-19 data?
Examples of objectives:
Analyze the trend of COVID-19 cases and deaths over time.
Identify regions with the highest infection rates.
Explore the impact of various interventions on case numbers.

Data Source

Describe where you will obtain the COVID-19 cases and deaths data. This could be from government sources, public datasets, or other reliable sources.
Provide information on the format of the data (CSV, Excel, API, etc.).
Mention any data collection constraints or limitations.

Data Processing and Cleaning

1. Data Collection

Detail the steps you took to collect the data.
Provide any relevant links, APIs, or references to the data source.

2. Data Validation
Check for data consistency and correctness.
Identify and handle missing or incomplete data points.
3. Data Preprocessing
Prepare the data for analysis in IBM Cognos.
Convert data types if needed (e.g., dates, numerical values).
Handle outliers or anomalies.
4. Data Cleaning
Remove duplicates if present.
Standardize data formats and values (e.g., uniform date formats).
Address any data quality issues.
5. Data Integration
If necessary, integrate multiple data sources into a single dataset.
6. Data Aggregation
Create summary data if needed (e.g., daily or weekly aggregates).
Data Visualization with IBM Cognos
Explain why you've chosen IBM Cognos for data visualization.
Describe how you will import and connect your preprocessed data to IBM Cognos.

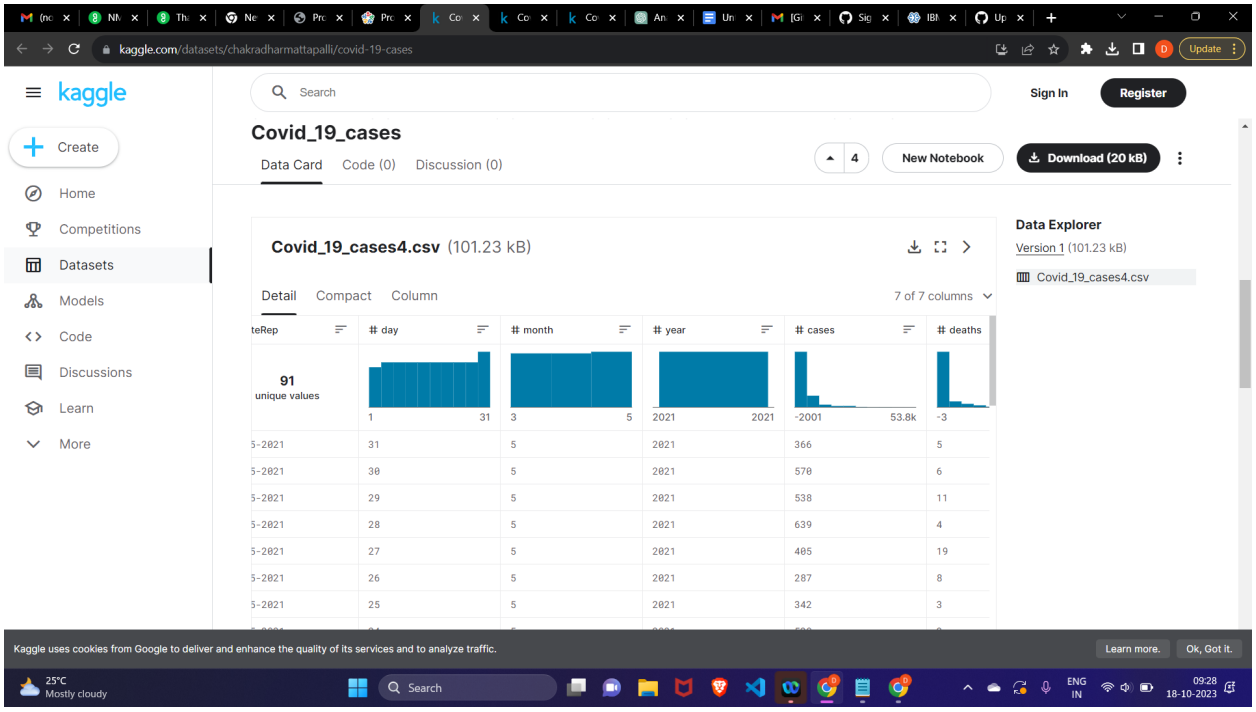
Analysis and Visualization

Create visualizations and reports to address your defined objectives.
Provide insights and observations based on the visualized data.

Conclusion

Summarize the key findings and insights from your COVID-19 cases analysis.
Discuss any limitations or challenges encountered during the analysis.
Mention potential next steps for further analysis or improvements.

Dataset analysis:



Dataset link:

https://www.kaggle.com/datasets/chakradharmattapalli/covid-19-cases