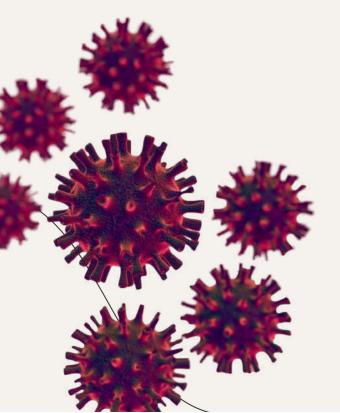
Unlocking Insights: A Comprehensive Analysis of COVID-19 Cases Using IBM Cognos

TEAM MEMBERS

Introduction

This presentation provides a comprehensive analysis of COVID-19 cases using **IBM Cognos**. We will explore the power of data analytics in understanding the impact of the pandemic. Through visualizations and insights, we aim to uncover patterns, trends, and correlations in the data. Let's dive into the world of data-driven decision making in the fight against COVID-19.





UNDERSTAND COVID-19 CASES DATASET

Before we delve into the analysis, it's crucial to understand the **key characteristics** of COVID-19. This slide will provide an overview of the virus, including its transmission, symptoms, and global impact. By gaining a deeper understanding of the disease, we can better interpret the data and make informed decisions.



Data Collection and Preparation

To unlock insights, we need high-quality data. The data collection process, including sources such as government reports, healthcare databases, and research institutions. We will also explore the data preparation steps, including cleaning, transforming, and integrating datasets to ensure accuracy and consistency.

DATA COLLECTION

Covid 19 Cases Analysis Is Done By Using The Dataset Of "Covid 19 Cases" Provided By The Dataset Site www.Kaggle.com

DATASET LINK:

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





CODE FOR DATA COLLECTION AND PREPARATION

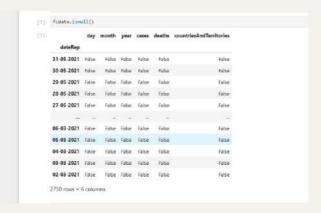
The Following Code To Import These Datasets Into Your Jupyter Notebook And To Display The First Five Columns

```
[1]: import pandas as pd
     import matplotlib.pvplot as plt
     fcdata=pd.read csv("E:\IBM Covid analysis\Covid 19 cases4.csv",index col=0)
     print(fcdata.head())
                day month year cases deaths countriesAndTerritories
     dateRep
     31-05-2021 31
                         5 2021
                                                              Austria
     30-05-2021 30
                         5 2021
                                                              Austria
     29-05-2021 29
                         5 2021
                                   538
                                                              Austria
                         5 2021
                                                              Austria
     28-05-2021 28
                                   639
     27-05-2021 27
                       5 2021
                                   405
                                                              Austria
```



CODE FOR DATA COLLECTION AND PREPARATION

The Following Code Are Used For Data Cleaning And Data Extraction





fcdata.isn	e()					
	day	month	year	cases	deaths	countriesAndTerritories
dateRep						
31-05-2021	False	False	False	False	False	False
30-05-2021	False	False	False	Faise	False	False
29-05-2021	False	False	False	False	False	False
28-05-2021	False	False	False	False	False	False
27-05-2021	False	False	False	False	False	False
12	- 44	- 644	-		- 44	
06-03-2021	False	False	False	False	False	False
05-03-2021	False	False	False	False	False	False
04-03-2021	False	False	False	False	False	False
03-03-2021	False	False	False	False	False	False
02-03-2021	False	False	False	False	False	False

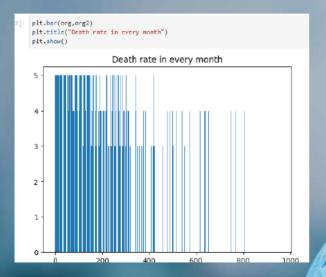
[5]:	<pre>fcdata.isnull().sum()</pre>					
[5]:	day month year cases deaths countriesAndTerritories	0 0 0 0 0				
	dtype: int64					



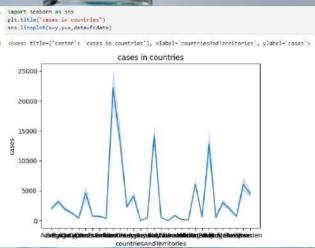
Exploratory Data Analysis

With the data ready, we can now perform **exploratory data analysis** (**EDA**). This will showcase the power of IBM Cognos in visualizing COVID-19 data through charts, graphs, and maps. By exploring the data visually, we can identify patterns, outliers, and correlations that provide valuable insights into the spread and impact of the virus.

LINEPLOT AND SCATTER PLOT

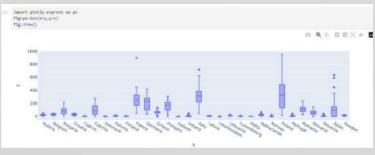


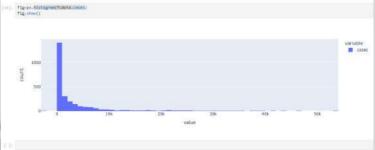






BOX PLOT AND HISTOGRAM

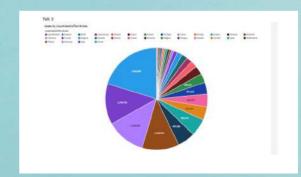




BAR CHART AND PIE CHART





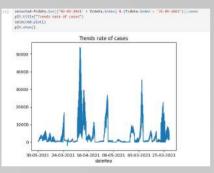


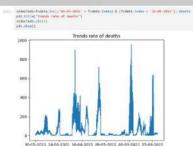
Advanced Analytics with IBM Cognos

IBM Coanos offers advanced analytics capabilities that go beyond visualization. This will highlight how we can leverage predictive modeling, machine learning, and forecasting techniques to gain deeper insights into COVID-19. By uncovering hidden patterns and predicting future trends, we can make data-driven decisions to mitigate the impact of the pandemic.



TRENDS RATE



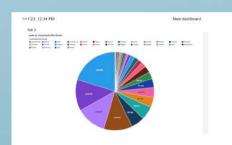


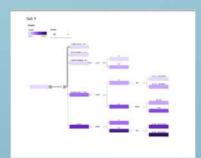


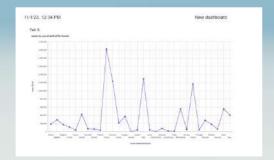
VARIATION IN DATASET



POTENTIAL CORRELATION





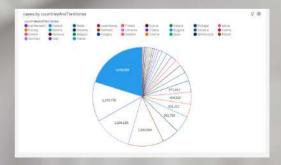






INSIGHTS OF DATA





Conclusion

In this presentation, we explored the power of **IBM Cognos** in unlocking insights from COVID-19 data. By combining data analytics with domain expertise, we can better understand the virus's impact, identify effective strategies, and make informed decisions. As we continue to fight the pandemic, let's harness the power of data to drive positive change and create a safer future.

