# **Project Title:** Covid-19 Data Dashboard by Power BI.

**Project Description:**

The COVID-19 Data Dashboard by Power BI represents an innovative approach to comprehensively visualize and analyze the impact of the COVID-19 pandemic. This Power BI project seeks to address a variety of critical questions and provide an interactive platform for understanding the pandemic's effects on a global scale. It's an essential tool for decision-makers, healthcare professionals, and the general public to gain insights into the trends and patterns of the pandemic.

**Problem Statement:**

The primary objective of this project is to create an interactive dashboard that visualizes key COVID-19 statistics for countries around the world. Specifically, the project addresses the following aspects:

**Key Visualizations:**

1. **Top 10 Countries by Total Cases:** Visualize and rank the ten countries with the highest total reported COVID-19 cases.

2. **New Cases by Countries:** Provide insights into the daily increase in COVID-19 cases for different countries.

3. **Total Deaths by Countries:** Display a breakdown of COVID-19 related deaths by country**.**

4. **Total Cases by Yearly & Countries:** Analyze the trend of total COVID-19 cases over the years, both globally and for individual countries**.**

5. **Median Age Affected by Continent and Countries:** Investigate the median age of individuals affected by COVID-19, differentiating by continents and individual countries.

6. **Country Slicer:** Offer users the ability to filter and explore data for specific countries of interest.

7**. Key Metrics:** Display a summary of the total cases, new cases, and total deaths on the dashboard for quick reference.

**Project Significance:**

The Covid-19 Data Dashboard holds significant importance for various stakeholders, including public health officials, policymakers, researchers, and the general public. It serves the following purposes:

1. **Public Awareness:** The dashboard provides the public with up-to-date and clear information about the impact of COVID-19, promoting awareness and responsible behavior.
2. **Policy Decision Support:** Policymakers can make informed decisions based on the data, responding to changes in infection rates and focusing resources where needed.
3. **Research and Analysis:** Researchers can use this tool to explore the data, identify trends, and gain insights for further study.

**Project Significance:** The dashboard boasts several user-friendly features:

1. **Interactive Visuals**: All data visualizations are interactive, allowing users to explore data and extract insights with ease.
2. **Country Filter:** Users can select specific countries of interest through a slicer to view detailed data for those countries.
3. **Yearly Trend Analysis:** The dashboard presents a temporal dimension, enabling users to track the evolution of the pandemic over time.
4. **At-a-Glance Metrics:** Key metrics for Total Cases, New Cases, and Total Deaths are prominently displayed at the top of the dashboard for quick reference.
5. **User-Friendly Design:** The dashboard's design is intuitive and user-friendly, making it accessible to a wide range of audiences.

**Conclusion:**

The Covid-19 Data Dashboard by Power BI is an essential tool for understanding the global impact of the COVID-19 pandemic. It provides a user-friendly interface to explore critical statistics, aiding public awareness, policymaking, and research efforts. This project demonstrates the power of data visualization in conveying complex information, ultimately contributing to a better-informed and more resilient global community.

**Thank You**