***COVID-19 Data Analysis using Power BI – README***

**Introduction**

This project presents an interactive **COVID-19 Data Analysis Dashboard** built in **Power BI**, providing real-time insights into the spread, trends, and impact of the pandemic.  
It aims to support decision-making by visualizing cases, recoveries, deaths, and vaccination rates across regions.

**Dataset Description**

* **Source:** Public COVID-19 datasets (e.g., WHO, Johns Hopkins University, or government portals).
* **Time Period:** Covers pandemic data from initial outbreak to latest available date.
* **Key Fields:** Date, Country/Region, Total Cases, New Cases, Deaths, Recoveries, Active Cases, Vaccination Count.

**Steps Performed**

1. **Data Collection** – Imported COVID-19 dataset into Power BI.
2. **Data Cleaning & Transformation** – Used Power Query for data type corrections and missing value handling.
3. **Data Modeling** – Established relationships between tables for accurate calculations.
4. **Visualization** – Created dynamic charts, maps, and KPI cards to display key statistics.
5. **Dashboard Design** – Built an interactive and filter-enabled dashboard for user exploration.

**Key Insights**

* Global trends in COVID-19 cases and deaths over time.
* Countries with highest infection rates and death tolls.
* Correlation between vaccination rates and reduction in active cases.

**Tools Used**

* **Power BI** (Data Modeling, Power Query, DAX Calculations, Visualization)

**How to Use**

1. Open the .pbix file in **Power BI Desktop**.
2. Use filters to view specific countries, time periods, or metrics.
3. Hover over visual elements for detailed insights.

**Author Info**

**Author:** Komal Deshmukh  
**Purpose:** Portfolio Project demonstrating business intelligence and data visualization skills with Power BI.