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Covid Tracker

EDA and Dashboard for COVID-19 Data ratings

PROJECT DESCRIPTION

Perform Exploratory Data Analysis (EDA) on the COVID-19 dataset from the Ministry of Health and create an interactive dashboard using Power BI to visualize the spread and impact of COVID-19. Students will uncover insights and present key findings effectively.

PROJECT DELIVERABLES

1. **EDA Report:**

   A detailed report on the Exploratory Data Analysis conducted on the dataset.

2. **Visualizations:**

   Effective data visualizations that show the trends, spread, and impact of COVID-19.

3. **Power BI Dashboard File:**

   An interactive Power BI dashboard that displays the key metrics and insights.

4. **Brief Report on Key Insights:**

   A summary of the most important findings from the analysis.

FURTHER INSTRUCTIONS

Here is a suggested pathway to complete this project:

1. Data Acquisition:

- Download the COVID-19 dataset from the Ministry of Health (or a similar open-source dataset).
- Load the data into Power BI.

2. Data Cleaning & Transformation:

- Use Power Query to clean the data:
  - Remove unnecessary columns.
  - Handle missing values.
  - Ensure data types (date, numbers) are correct.

3. Exploratory Data Analysis (EDA):

- Visualize trends over time using:
  - Line charts for daily cases/deaths/recoveries.
  - Bar charts to compare regions/countries.
- Use filters to explore different time periods or regions.

4. Create Key Visuals:

- Build visuals for:
  - Total cases, deaths, and recoveries.
  - Active vs. closed cases.
  - Geographic spread using a map visualization.

5. Dashboard Creation:

- Design an interactive dashboard:
  - Add slicers to filter by country/region and time.
  - Combine charts and visuals to tell a clear story.

6. Extract Insights:

- Summarize the key findings:
  - Peak infection periods.
  - Most affected regions.
  - Rate of recovery.

7. Final Presentation:

- Present the Power BI dashboard and EDA report to highlight key insights and trends.

BEST OF LUCK ... :)

THANK YOU!

- https://covid19dashboard.mohfw.gov.in/
- https://docs.owid.io/projects/etl/api/covid/#download-data
- https://data.who.int/dashboards/covid19/cases
- https://data.who.int/dashboards/covid19/data

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