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**COVID-19 In India Analysis**

**Team Members**

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**Data Cleaning:**

The dataset was sourced from GitHub. It was provided in a pre-cleaned format, this included the removal of duplicate entries, handling of missing values, and ensuring consistency across all relevant fields. As a result, no additional data cleaning steps were required for this analysis.

**Objectives:**

• Which state has the highest number of COVID-19 deaths?

• What age group has the highest percentage of confirmed COVID-19 cases?

• Which state has the most ICMR testing labs?

• How many first doses of the vaccine have been administered compared to second doses?

• What is the trend of confirmed and cured COVID-19 cases over time?

**Key Insights:**  
📊Highest COVID-19 Deaths: Maharashtra has the highest number of COVID-19 deaths.  
  
📊Age Group Analysis: The age group of 20-29 years has the highest percentage of confirmed COVID-19 cases.  
  
📊Testing Infrastructure: Maharashtra leads in the number of ICMR testing labs, which plays a crucial role in managing the spread of the virus.  
  
📊Vaccination Trends: Our analysis shows that there is a significant number of first doses have been administered compared to second doses.  
  
📊Case Trends Over Time: The dashboard visualizes a clear trend of confirmed and cured COVID-19 cases over time, illustrating the progress made in managing the pandemic.

**Recommendations:**

Since the pandemic occurred in 2020, These recommendations can focus on what was learned and how these insights can guide future preparedness for similar situations.

* **Strengthen Healthcare for Future Pandemics:**  
  Maharashtra's high death toll highlights the need for stronger healthcare systems in vulnerable regions to handle future crises.
* **Focus on Younger Populations:**  
  The high case rate among 20-29 year-olds suggests that future awareness campaigns should target younger demographics more effectively.
* **Expand Testing Infrastructure:**  
  Maharashtra's lead in testing labs shows the importance of widespread testing capacity to control outbreaks early.
* **Ensure Full Vaccination Coverage:**  
  The gap between first and second doses emphasizes the need to ensure complete vaccination in future campaigns.
* **Track and Act on Case Trends:**  
  Continuously monitoring case trends can help with quicker responses in future health emergencies.