

COVID-19 **INDIA** **ANALYSIS**

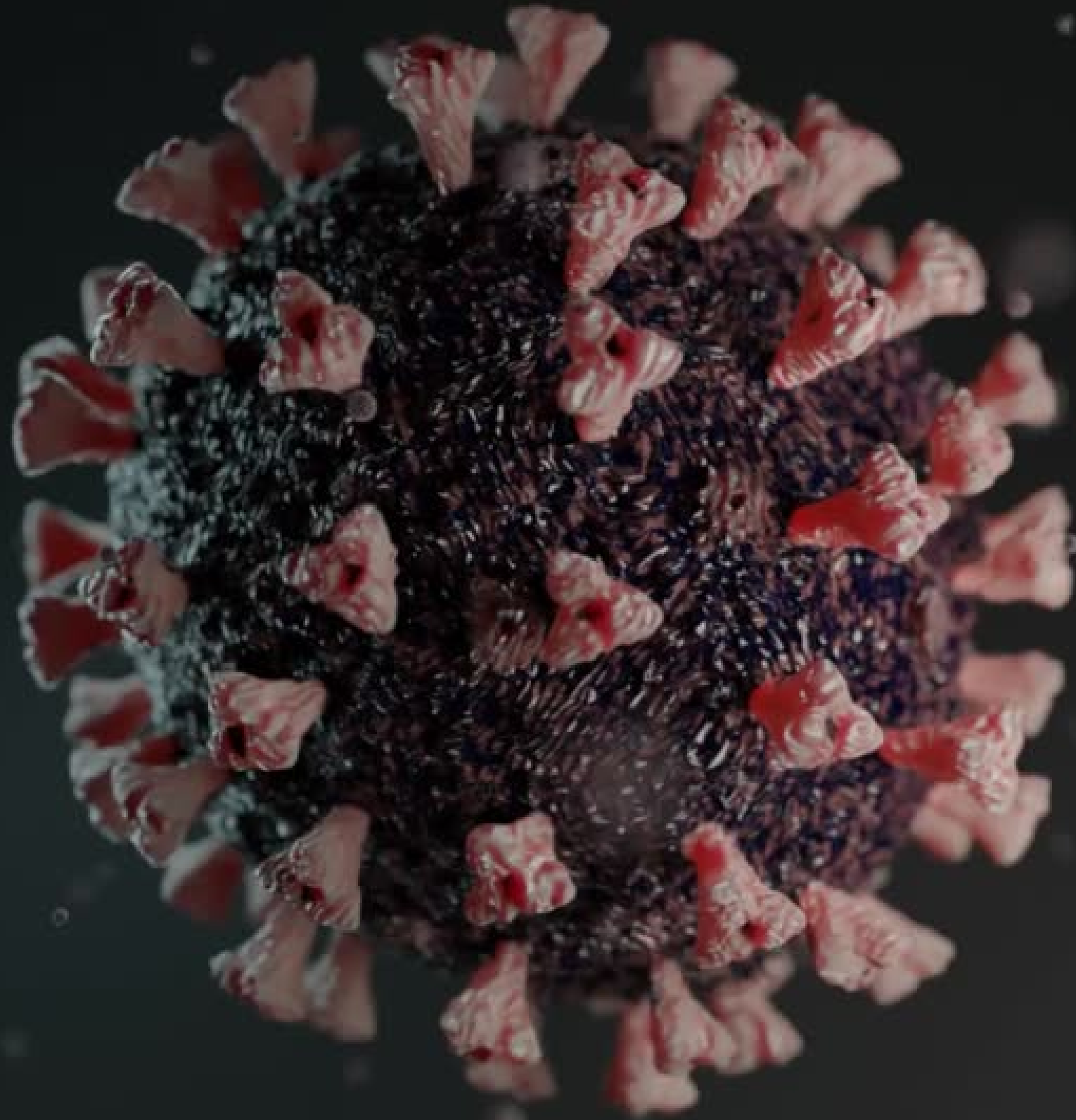


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PROJECT RECAP



The problem we are addressing with this project is to analyze and gain insights from the COVID-19 data in India. The COVID-19 pandemic has had a profound impact on public health, and understanding the data is crucial for decision-making and resource allocation. Our goal is to provide valuable insights and create a data-driven dashboard to aid in understanding the pandemic's progression and its effects on different regions of India.

THE ANALYTICAL TEAM



Fardin Khan



Vanshpal Singh



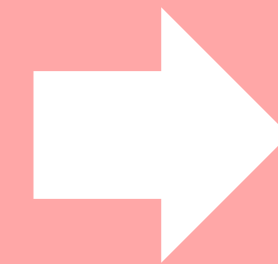
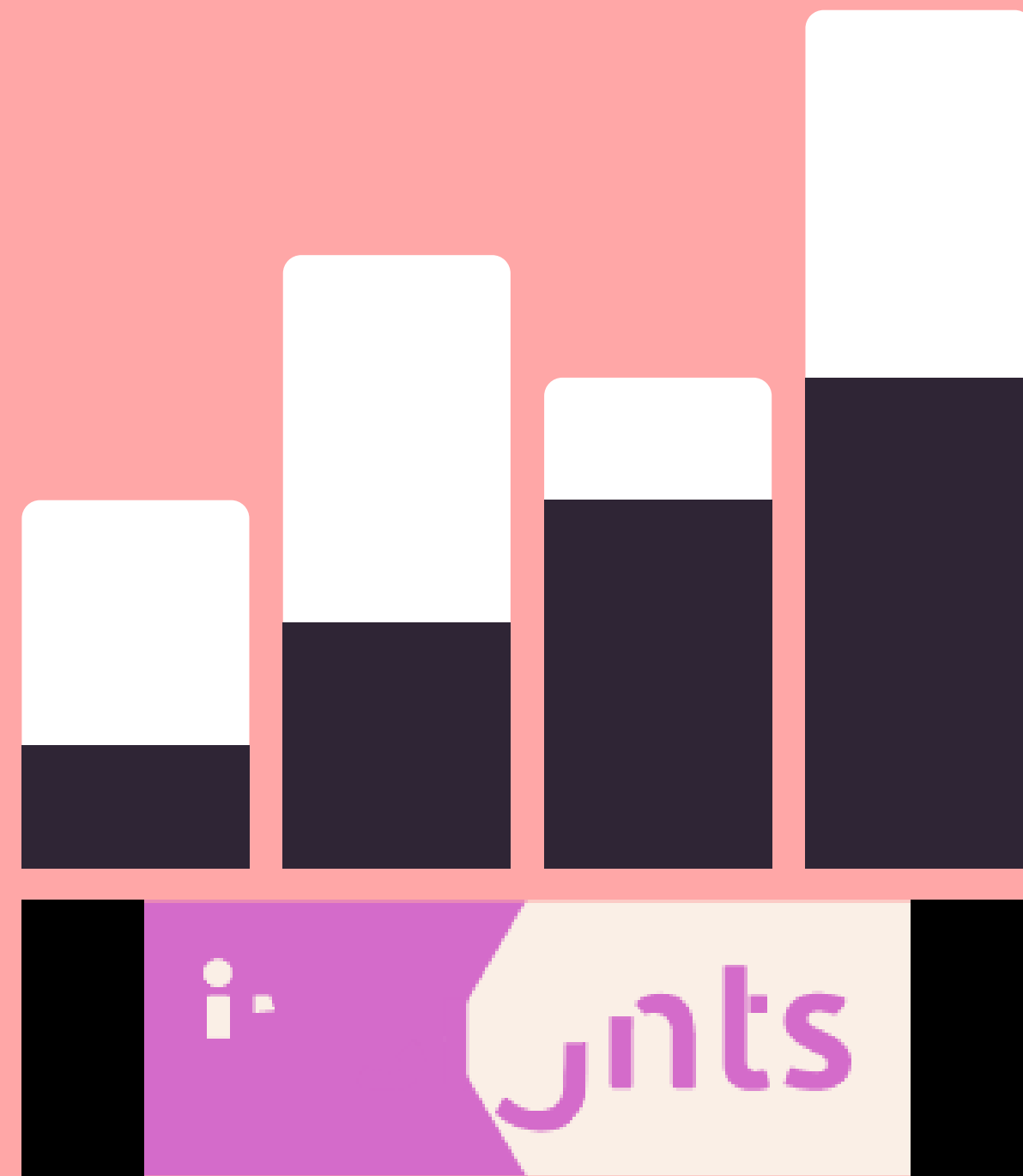
Sachin Yadav

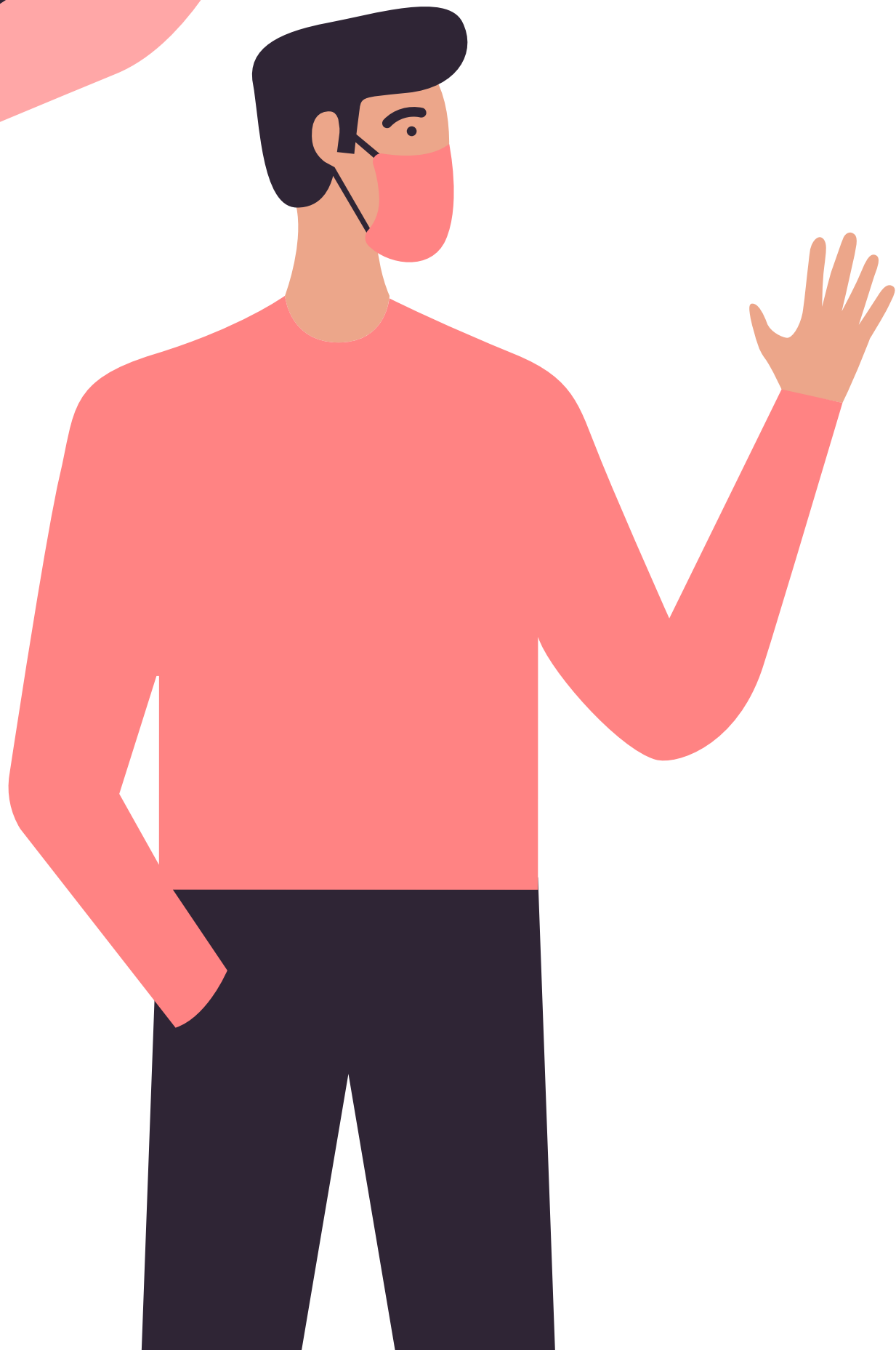


Vishwanath J

PROCESS

- 1 Data Understanding & Execution Plan
- 2 Data Extraction and Processing
- 3 Creating Necessary Aggregated Tables
- 4 Analysis & Dashboard Creation
- 5 Insights Gathering
- 6 Last Day Quality Assurance





Total Tested

1,13,068M

Total Confirmed

7,263M

Total Recovered

6,843M

Total Deceased

97M



Confirm To Test Ratio

6.4%

Recover To Confirm

94.2%

Death To Confirm

1.3%

CASES BY CATEGORIES

Categories Based on Test Ratio

A: ≥ 0.05 & ≤ 0.1

B: > 0.1 & ≤ 0.3

C: > 0.3 & ≤ 0.5

D: > 0.5 & ≤ 0.75

E: > 0.75 & ≤ 1.0

Highest Confirmed Cases

B: 11.6M

Highest Deaths Contribution

B: 62%

Lowest Confirmed Case

E: 0.1M

Lowest Death Contribution

E: 0.3%

Test Ratio = number of tests done / population

WORST DECEASED & CONFIRM

Worst State

Confirmed : Maharashtra

Deceased : Maharashtra

Worst District

Confirmed : Bangaluru

Deceased : Bangaluru

Safest State

Confirmed : Lakshadweep

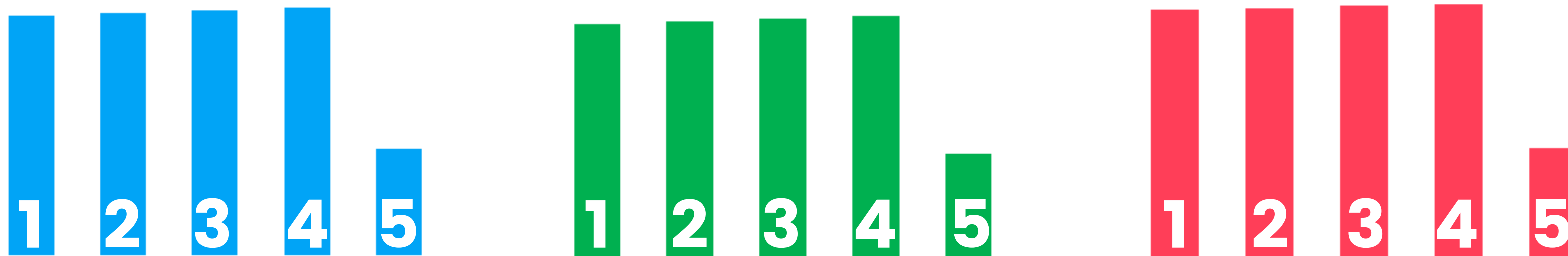
Deceased : Dadra Nagar Haveli
and Daman and Diu

Safest District

Confirmed : Dibrugarh

Deceased : Dibrugarh

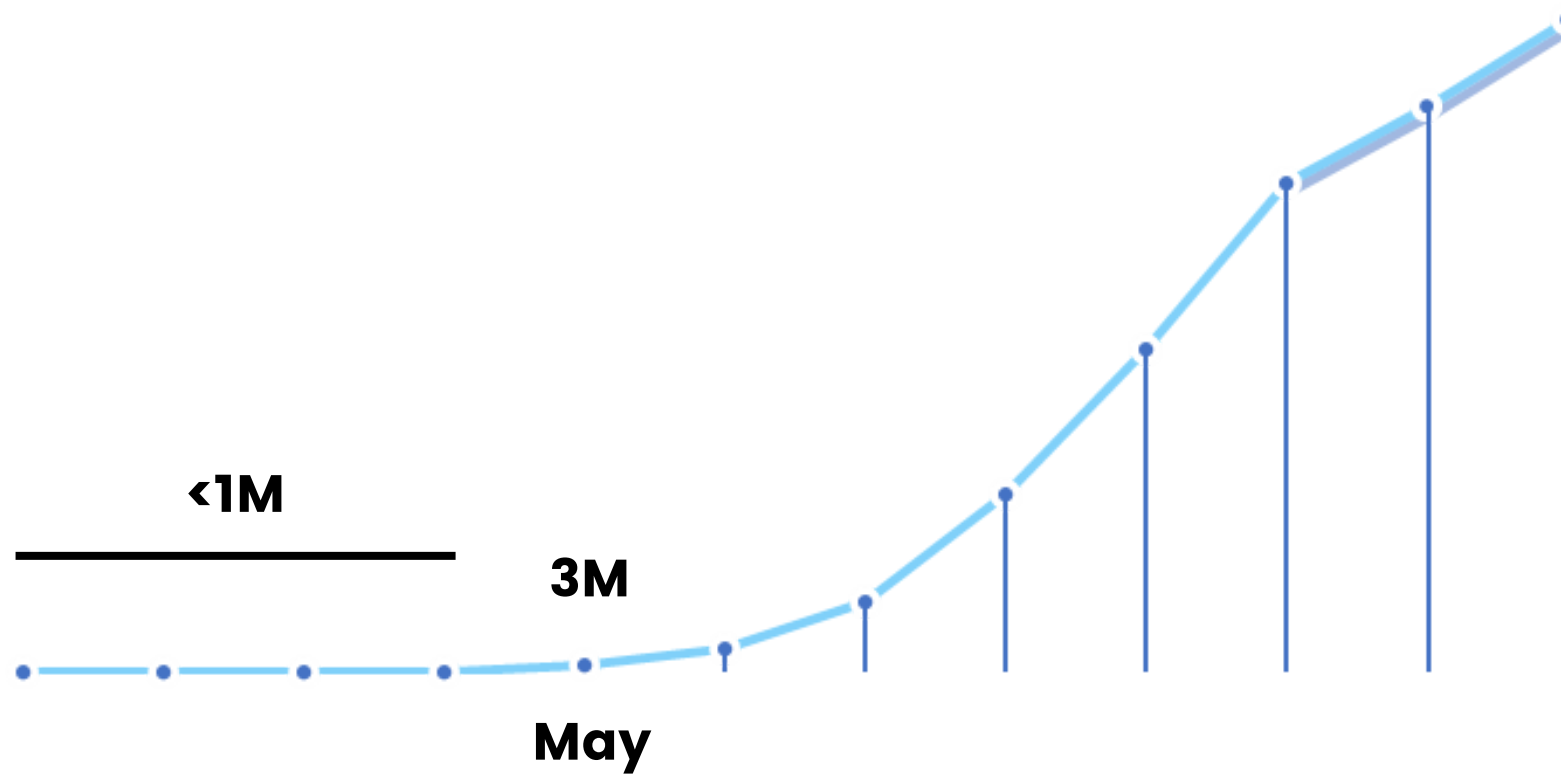
WEEKLY TREND



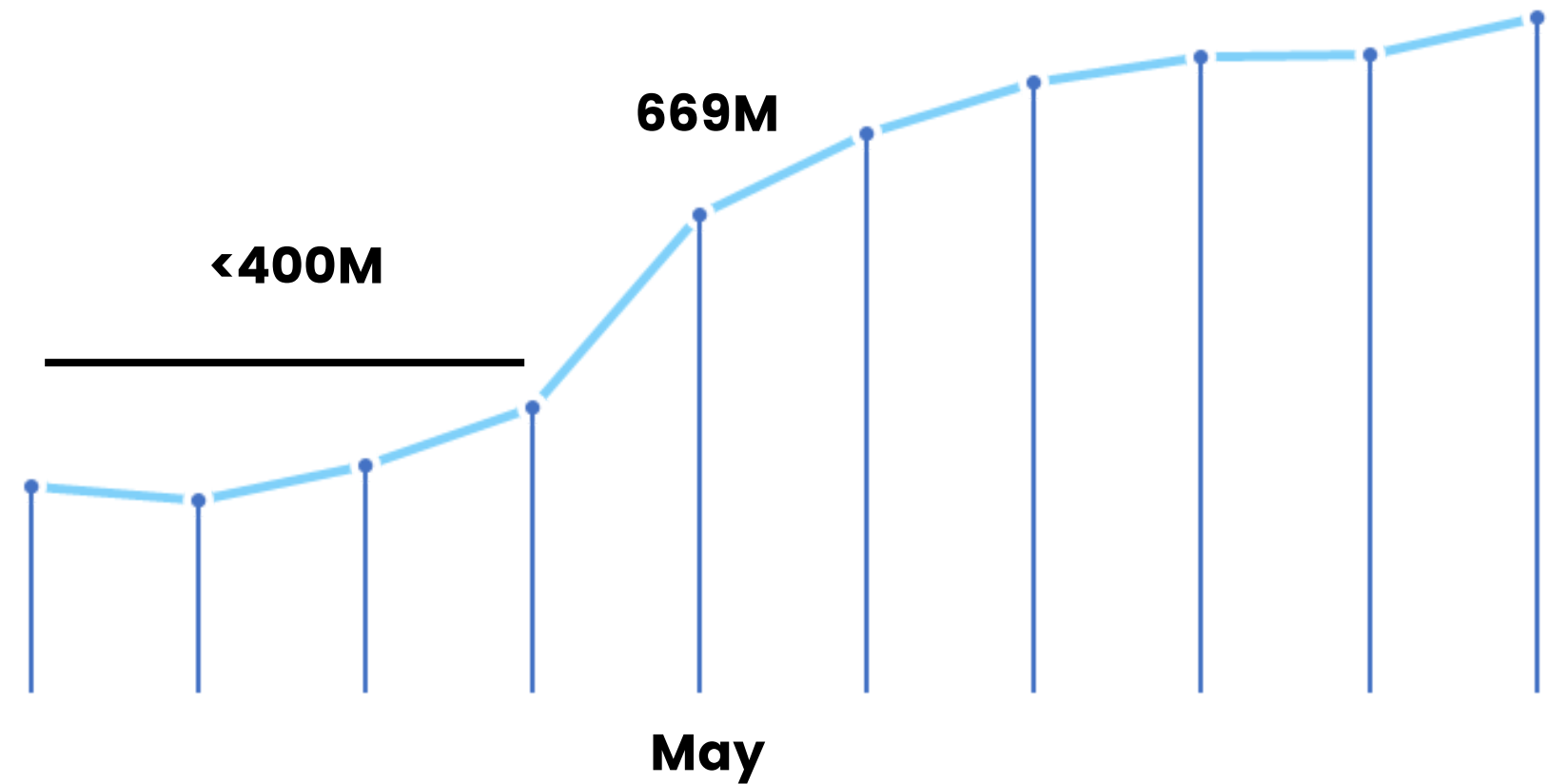
In every month, confirmed, Recovered, and Deceased cases suddenly Drops in 5 the week.

MONTHLY TREND

2020



2021

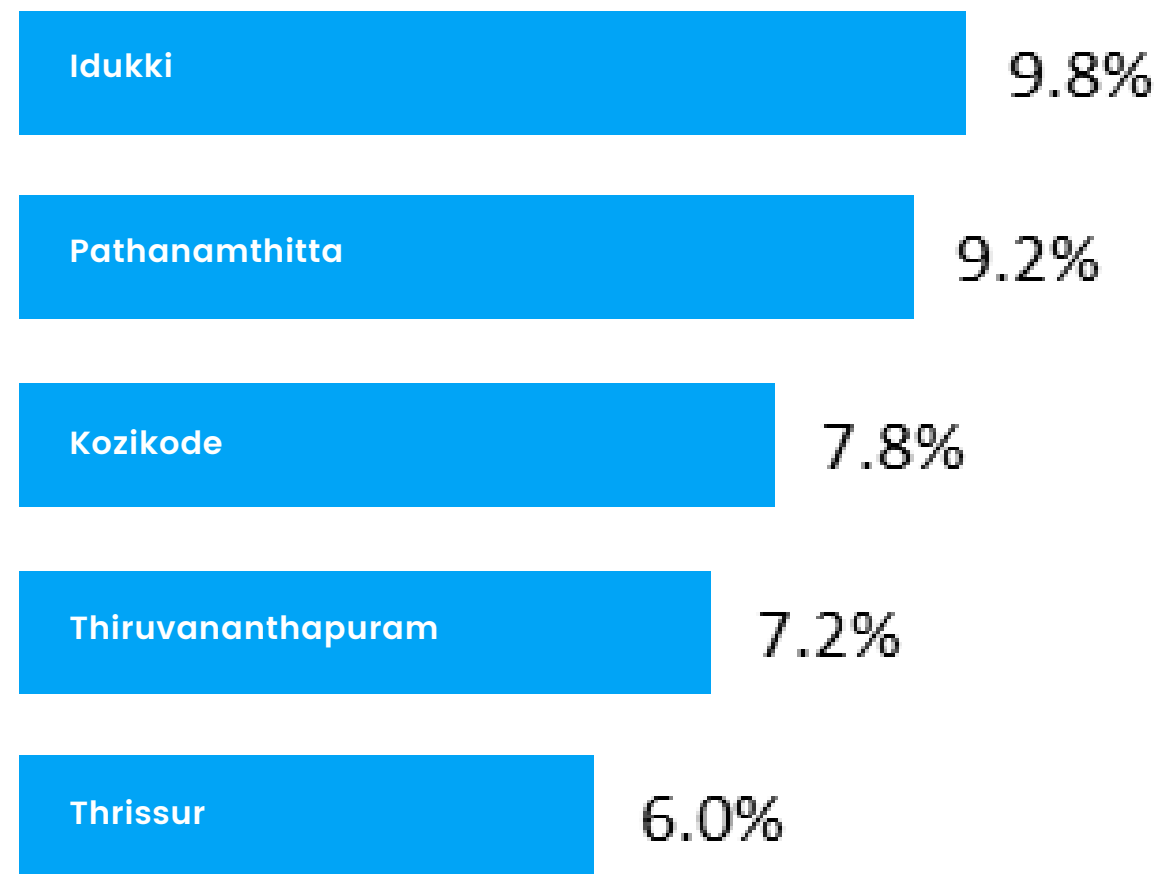


In every Year, confirmed cases Exponentially increases in May.

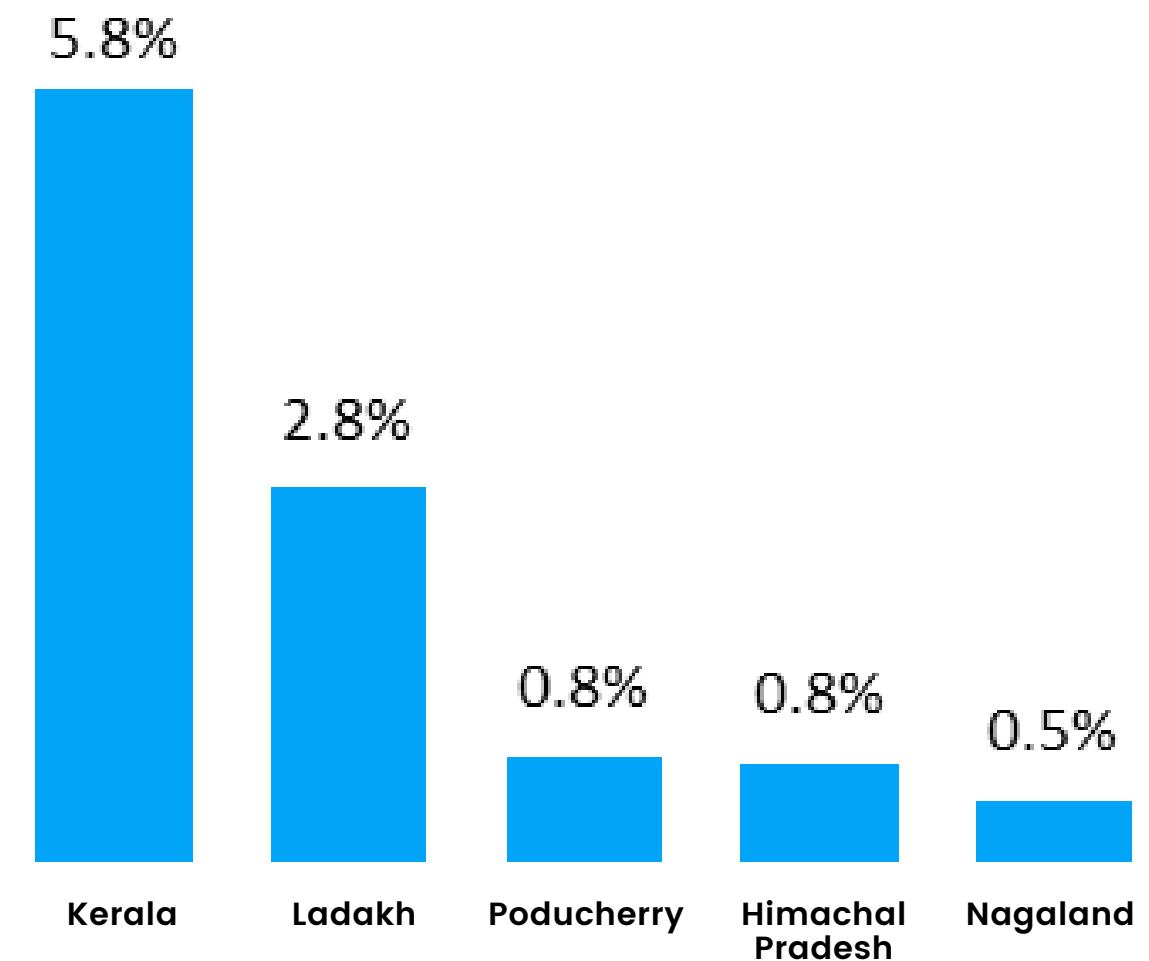
D7 CONFIRMED CASES

Even After vaccination

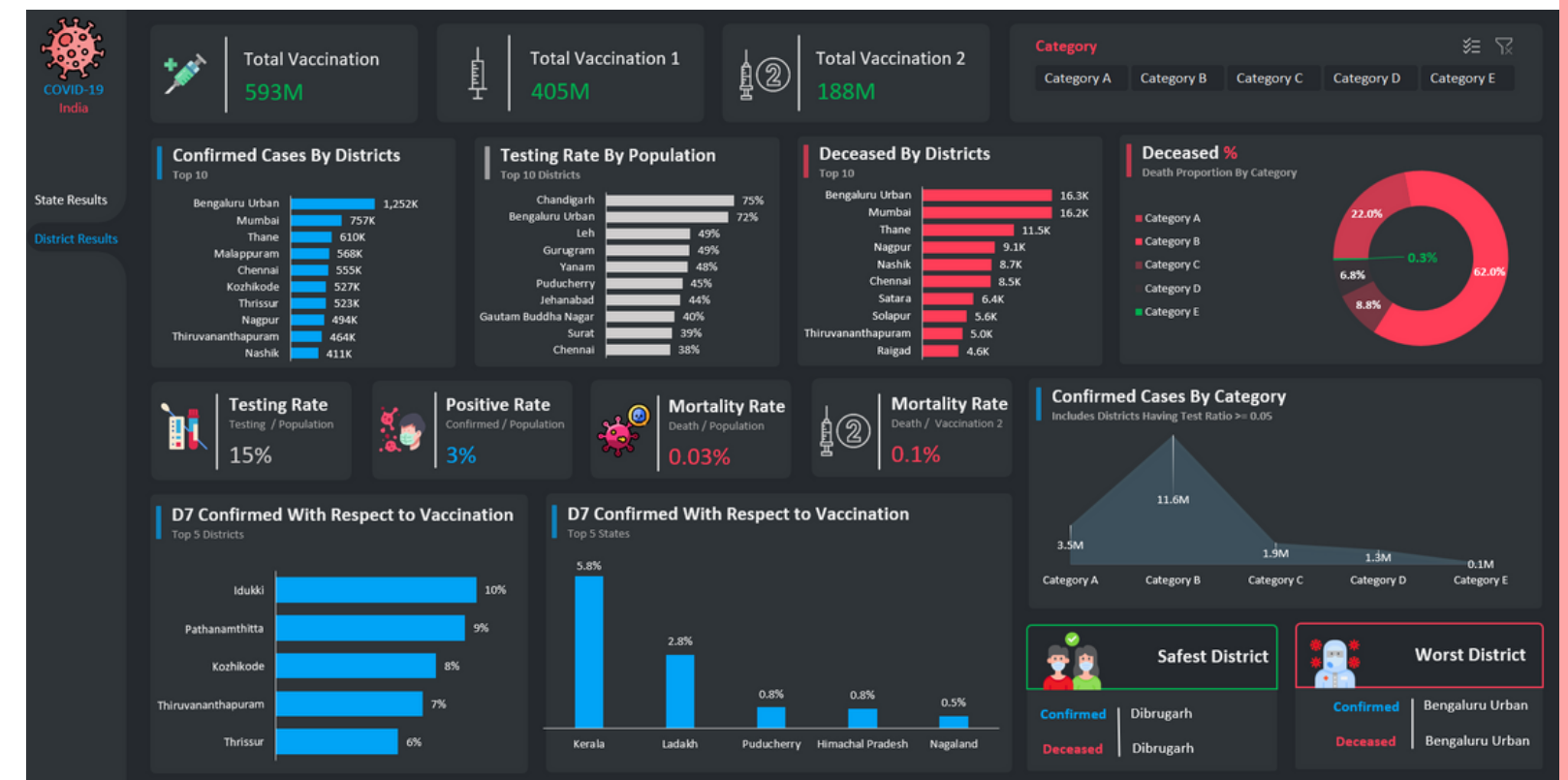
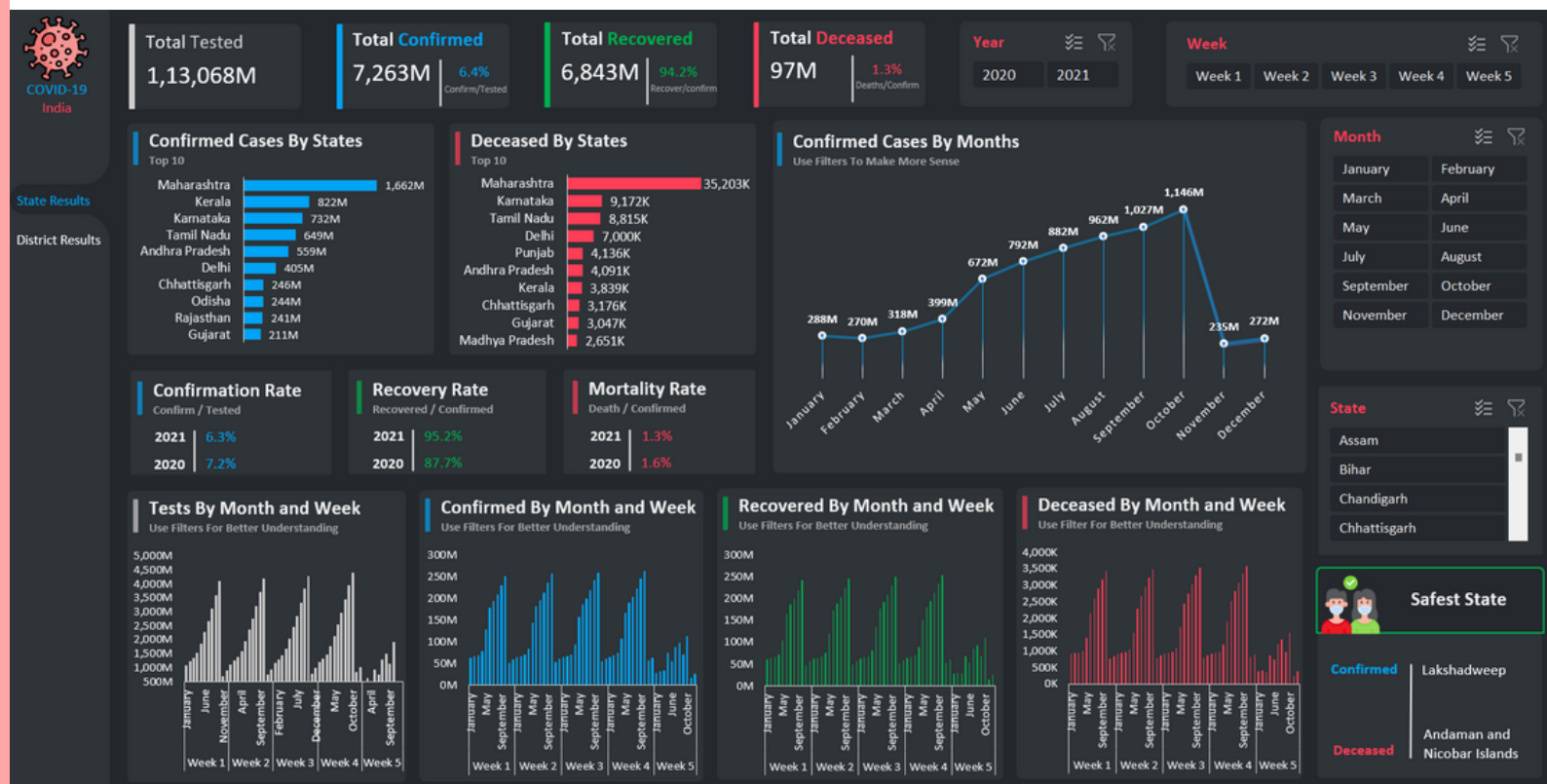
Top 5 District



Top 5 States



DASHBOARD



CHALLENGES FACED



- **Data Extraction:** We initially faced difficulties in getting data from the server, but we persevered and figured it out.
- **Data Cleanup:** Dealing with messy data, including missing values and confusing entries, was a challenge. We brainstormed and tried different methods to clean it up and make it useful.
- **Data Visualization:** Visualizing the data in a way that answered the project's questions was tough. We had to think creatively and work as a team to present the data effectively.
- **Time Management:** Meeting project deadlines required good time management skills, and we learned to prioritize tasks efficiently.

LEARNINGS



- **Persistence:** We learned to keep trying when faced with data extraction problems.
- **Data Cleaning:** We improved our skills in making messy data useful through experimentation.
- **Creative Problem-Solving:** We found creative ways to visualize complex data through teamwork.
- **Teamwork and Communication:** Working with diverse viewpoints improved our communication and collaboration skills.
- **Time Management:** Efficiently managing our time became crucial to meet project deadlines.

SUMMARY



In conclusion, our analysis of the COVID-19 situation in India has yielded valuable insights and actionable information for understanding and managing the pandemic. Through meticulous data preparation, rigorous SQL-based aggregations, and thoughtful Excel-based reporting, we have achieved the following:

- Weekly Evolution.
- Testing Ratios (tr)
- Delta7 vs. Vaccination
- Severity KPIs
- Worst Month Analysis

Finally, an Interactive Dashboard which is can be utilized for quick insights gathering, which gives 360 views if filters are utilized.



THANK YOU!

Any Questions?