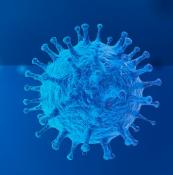


STAX

Xinyu Chang, Siqi Cheng, Tiara Januar, Audrey Kho

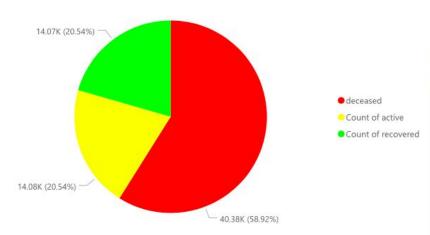




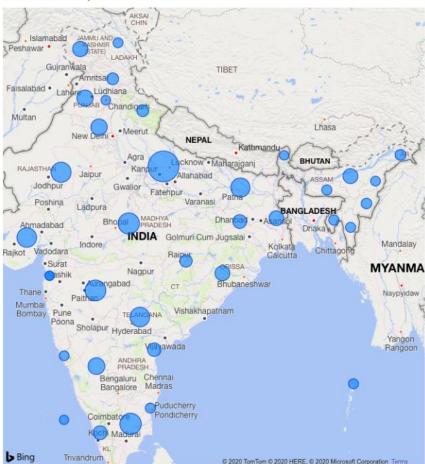
Active COVID-19 Cases in India

State All

deceased. Count of active and Count of recovered



Count of active by State







Active COVID-19 Cases in India



- 1. Dataset district_daily_may_15.csv was chosen as we would like to explore the number of confirmed, active, deceased and recovered cases by date for each district in India since 21st April, 2020.
- 2. The drop-down menu was created to be able to slice the data and pick out which location you would like to see.
- 3. In order to create the pie chart, values for count of active, recovered and deceased were taken in to show the statistics of cases in each state. Striking colors were used to convey the status of cases. Red → Deceased, Yellow → Active, Green → Recovered
- 4. The map was created, which when the cursor is hovered above a specific region, will provide a tooltip, complete with an area chart which showcases the number of confirmed cases in that region by date.



- 1. While Uttar Prakash has the most population, it does not have the most deceased cases. Bihar, being the third most populated state, only has 6.11% of its population deceased, when compared to states with more population such as Maharashtra (89.53%). We can conclude that the more population a state has does not correlate to the number of deceased cases.
- 2. The center of India has the most deceased cases, with Maharashtra having 15.51k and Madhya Pradesh with 4.22k. Moving South, Kerala, Lakshadweep and Puducherry has the least to none deceased cases as well as limited cases. We can conclude that although population has no correlation with deceased count, location does have a positive correlation.
- 3. I also found it interesting that states on the Southwestern coast of India has the least active/confirmed cases and none deceased cases. For example, Goa and the union territory of Dadra and Nagar Haveli and Daman and Diu.

Nationalities of COVID-19 Patients in Indian States

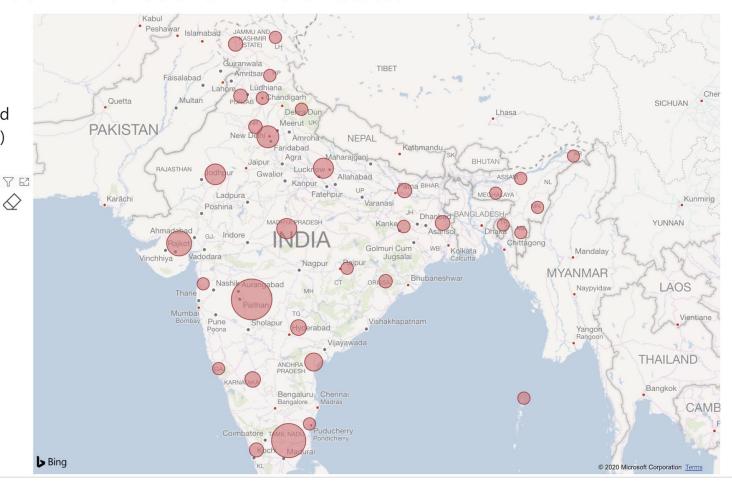
Last updated on May 16, 2020

38.20K

Total Cases Announced (Selected Nationality)

Nationality

- ✓ Select all
- Canada
- ✓ India
- ✓ Indonesia
- ✓ Italy
- Malaysia
- Myanmar
- ✓ Phillipines
- ☑ Thailand
- **✓** Tibet
- ✓ United Kingdom
- United States of America





Nationality & Demographics of COVID-19 Patients in Indian States



- 1. Used the patient_city_district_wise_data_may_5_date_formatted.csv dataset
- 2. Focused on creating a **visual map** of the **total number of new cases** in each Indian state (denoted by bubble size)
- 3. Created a filter that can alter the map visualization and total case count on the top left based on **patient nationality**
- 4. <u>Tooltip:</u> shows the number of **cities affected**, percentage of **gender**, and **general trend** of new COVID-19 cases across time, based on the patient nationality selected + state you are hovering over



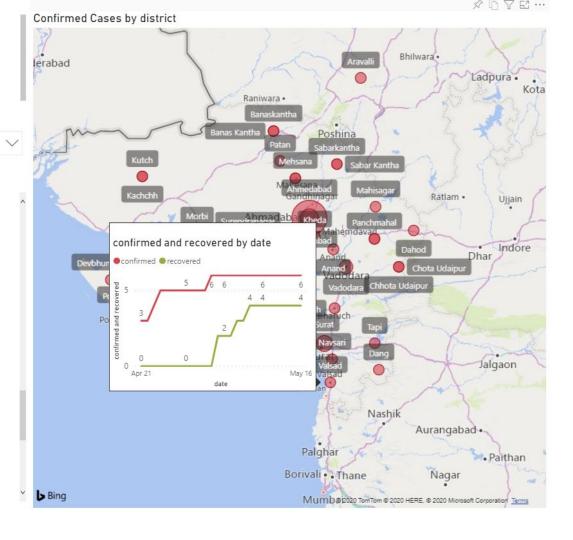
- 1. majority of the COVID-19 cases in India involves its **locals**
- 2. **49 foreign nationals** have tested positive for the coronavirus in India
- 3. Without accounting for unknown gender, there is a **greater percentage of male COVID-19 patients** than female or non-binary patients in most states
- 4. The state of **Maharashtra** has had the highest number of new COVID-19 cases, with a total of **8,707** cases announced
- 5. New cases were announced in **134 different cities** in the state of **Andhra Pradesh,** making it the state with the highest number of cities affected by the pandemic

COVID-19 Cases in India by State

State

Gujarat

| district | confirmed | deceased |
|-----------------|-----------|----------|
| Valsad | 140 | 25 |
| Chota Udaipur | 131 | 0 |
| Mahesana | 86 | 0 |
| Devbhumi Dwarka | 85 | 0 |
| Porbandar | 81 | 0 |
| Kachchh | 67 | 10 |
| Dang | 44 | 0 |
| Tani | /11 | 0 |
| Total | 152650 | 8486 |



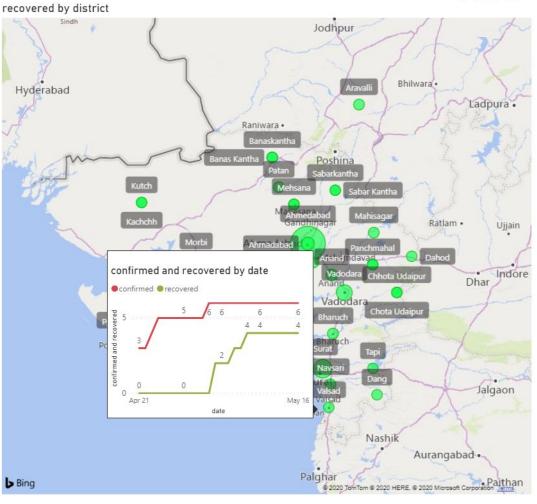
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COVID-19 Cases in India by State

State

Gujarat

| district | recovered | deceased |
|---------------|-----------|----------|
| Valsad | 48 | 25 |
| Chota Udaipur | 40 | 0 |
| Kachchh | 26 | 10 |
| Mahesana | 26 | 0 |
| Тарі | 22 | 0 |
| Sabar Kantha | 21 | 0 |
| Total | 38810 | 8399 |







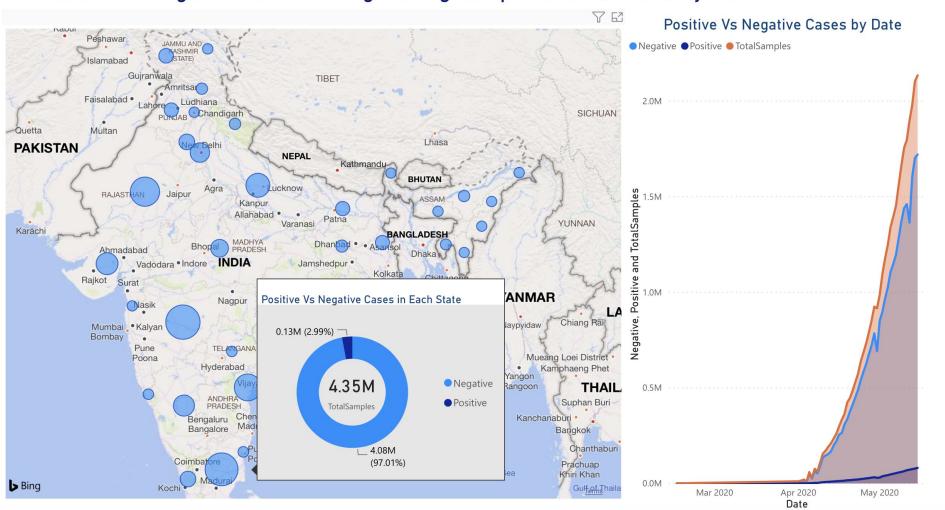


- Power BI is used as a tool to visualize the data set of district_daily_may_15.csv.
- 2. I created two pages to show the confirmed cases and the recovered cases.
- 3. I created a drop down menu for different states, a matrix to show the number of cases comparing to deceased number, a map which there are different size representing the number of cases at different places, and a tooltip which gives a simple line graph tells people trend for various district's conformed and recovery cases.



- Based on the district I chose in my screenshot, my picture can give the information that in Valsad, both the confirmed and the recovered cases show increasing trend during the range of time and keep the same while reaching May 16th.
- 2. Besides, the picture also tells that the ratio of deceased and confirmed cases of Valsad is about 17.85% and the ratio of Gujarat is about 5.56%.
- 3. From the map, one can easily tell that Ahmadabad has the most cases for both the confirmed cases and the recovered cases.
- 4. By checking the line graph, the confirmed and recovered cases both give increasing trends and the number seems will grow slower in the rest of May which we can somehow predict by the data we have now.

Positive Vs Negative Cases Among Testing Samples and Its Trend By Date





Positive Vs Negative Cases Among Testing Samples & Its Trend By Date



- 1. In this Analysis, StatewiseTestingDetails.csv was used.
- 2. Focus on creating a map that indicate the numbers of total testing samples in each state and the numbers of positive cases and negative cases were detected by those testing samples.
- 3. The **geographic map** were created and each area was marked by the numbers of testing samples in each state. Then a tooltip was created, when users hovered over the marked areas in each state, a **donut chart** was shown to indicate the percentage of positive vs negative cases among all the testing samples in that state specifically.
- The Area chat was created to show the trends of testing samples, positive cases and negative cases in that region by date.



- 1. The numbers of testing examples **increase** with the numbers of positive cases in each state.
- 2. Among all the states, Maharashtra has the most testing samples.
- 3. Maharashtra also has the **highest % of positive cases**, which is **8.21%** of positive cases were found throughout the total samples.
- 4. The numbers of COVID-19 cases started from **early Apri**l and haven't reached its peak in India.