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**CLASS: I M.Sc. DATA ANALYTICS**

**DATA: SUICIDE\_DATASET**

**DESCRIPTION:**

This dataset is downloaded from the *Data.Gov.in* website. It contains the count of the number of Suicides that happened in different States, Cities, and Union Territories during 2020 and 2021. The dataset consists of 94 rows and 5 columns. In this dataset, there are 3 missing values in the 'Category' Attribute.

**Category** – Sorted in Category wise ie., State, City, Union Territory. (class – *chr*)

**State/UT/City** – The City, State, and Union Territory names are given. (class – *chr*)

**Number of Suicides – 2020** – Number of suicides in a particular State/UT/City in 2020. (class – *dbl*)

**Number of Suicides – 2021** - Number of suicides in a particular State/UT/City in 2020. (class – *dbl*)

**Percentage Variation in 2021 over 2020** – Variation in 2021 over 2020. (class – *dbl*)

**ASSUMPTIONS:**

- To find out the highest suicide rate is from State, City or Union Territory.
- To find out Which State, Which City, and Which Union Territory has the highest suicide rate in 2021 over 2020.

**INSIGHTS:**

- A high number of suicides happen in State and it is followed by City during 2020 and 2021. UT has the least suicide rate compared with State and City.
- In 2021, the Suicide rate in both State and City increased compared to 2020. The suicide rate remains the same as in 2020 in UT in 2021.

**#State-wise Analysis - Insights:**

- Maharashtra, Tamil Nadu, Madhya Pradesh, West Bengal, and Karnataka has the highest number of Suicide in 2020.
- Maharashtra, Tamil Nadu, Madhya Pradesh, West Bengal, and Karnataka have the highest number of suicides in 2021.

**#States in Inter-quartile Region- Insights:**

- Gujarat, Chhattisgarh, and Andhra Pradesh have the highest number of suicides in the interquartile region in 2020.
- Gujarat, Andhra Pradesh, and Chhattisgarh have the highest suicide rate in the interquartile region in 2021.

- In Maximum states, the Variation in the suicide rate is positive (ie., the number of suicides in 2021 over 2020 is high).
- In Haryana and Rajasthan only, there is a negative Suicide variation.

#### **#City-wise Analysis- Insights:**

- Delhi, Chennai, Bengaluru, Mumbai, and Ahmedabad have the highest Suicide rate in 2020.
- Delhi, Chennai, Bengaluru, Mumbai, and Surat have the highest Suicide rate in 2021.

#### **#Cities in Inter-quartile Region- Insights:**

- Kanpur, Bhopal, Hyderabad, and Thrissur have the highest number of suicides in 2020.
- Asansol, Thrissur, Rajkot, and Kolkata have the highest number of suicides in 2021.
- In Maximum Cities, the Variation in the suicide rate is positive (ie., the number of suicides in 2021 over 2020 is high).
- In Jabalpur, Kanpur, Lucknow, and Ludhiana, the variation in the Suicide rate is negative.

#### **#Union Territory-wise Analysis- Insights:**

- Delhi and Jammu and Kashmir have the highest number of suicides in 2020.
- Delhi and Puducherry have the highest number of Suicides in 2021.

#### **#Union Territory in Inter-quartile Region- Insights:**

- Puducherry and Jammu and Kashmir have the highest number of suicides in 2020.
- Puducherry and Jammu and Kashmir have the highest number of suicides in 2021.
- In Maximum Cities, the Variation in the suicide rate is negative (ie., the number of suicides in 2021 over 2020 is low).
- In Dadra and Nagar Haveli and Daman and Diu and Puducherry only, the variation in the Suicide rate is positive.

#### **INFERENCE:**

- The state has the highest suicide rate increase in 2021 over 2020 compared to Cities and Union Territories in States.
- Madhya Pradesh has the highest Suicide rate in both 2020 and 2021 followed by Tamil Nadu.
- The suicide rate has increased in 2021 over 2020 in the Maximum States. Only in very few states, the Suicide rate has decreased in 2021 over 2020.
- Delhi has the highest Suicide rate in both 2020 and 2021 followed by Chennai in Cities.

- The suicide rate has increased in 2021 over 2020 in Maximum Cities. Only in very few cities, the Suicide rate has decreased in 2021 over 2020.
- Delhi has the highest Suicide rate in both 2020 and 2021 followed by Puducherry in Union Territories.
- The suicide rate has decreased in 2021 over 2020 in maximum union Territories. Only in very few Union Territories, the Suicide rate has increased in 2021 over 2020.