# **Insights based on EDA - Sindh**

1. First peak of COVID19 daily cases observed in Sindh was in the end of April 2020.
2. This peak was surpassed in June 2020 after various haphazard trend followed by the number of daily cases.
3. The later part of 2020 had maximum peak of 2000+ which shows that COVID19 was more rigorous in the earlier part of the 2020.
4. The First peak of COVID19 daily deaths was observed in April 2020, which was further surpassed in June 2020.
5. The maximum peak touched in 2020 was lately in December before that, there were no instances found when the daily death toll surpassed the June 2020 peak.
6. June 2020 had the highest count for the number of daily confirmed cases, which brings about different factors causing this into play.
7. September 2020 observed the least number of COVID19 cases.
8. The above insights depict a strong correlation between the number of COVID19 cases and the number of deaths.
9. However, in 2021 July had the maximum cases count and August observed the maximum deaths which propose a slight controversy.
10. Data depicts similar trend in the usage of Hospital beds and ICU beds in 2020 and 2021.
11. People used mask mostly in August 2020 and it had the most count for the COVID19 cases too. However, in 2021 May had the highest usage.
12. Almost similar trend is followed for mask usage in the starting of the year, but it is different in the later part.
13. 2020 was highly affected in terms of mobility with respect to 2021.
14. Temperature seems to be less/not contributing to the number of cases observed.
15. However, wind has some impact on the number of cases as there are more COVID19 cases observed in the windy months.

# **Insights based on EDA – Punjab**

1. First peak of COVID19 daily cases observed in Punjab was in May 2020.
2. This peak was surpassed in the mid of June 2020 after various ups and down in the trend of number of daily cases (Spread was rapid/faster than Sindh).
3. The mid part of 2020 had maximum peak of 4000+ which shows that COVID19 was more severe in the mid part of the 2020.
4. The First peak of COVID19 daily deaths was observed in April 2020, which was further surpassed in June 2020.
5. The maximum peak touched in 2020 was lately in December before that, there were no significant instances found when the daily death toll surpassed the June 2020 peak.
6. May 2020 had the highest count for the number of daily confirmed cases, while June and July observed the minimum too.
7. The above insights depict a slightly weak correlation between the number of COVID19 cases and the number of deaths.
8. In 2021 May had the maximum cases count and June observed the maximum deaths which somehow supports the above statement.
9. Data depicts similar trend in the usage of Hospital beds and ICU beds in 2020 and 2021.
10. People used mask mostly in June 2020 and it was the second peak for the COVID19 cases too. However, in 2021 October had the highest usage.
11. 2020 was highly affected in terms of mobility with respect to 2021.
12. Temperature seems to be less/not contributing to the number of cases observed.
13. However, wind has very slight impact on the number of cases as there are more COVID19 cases observed in some of the windy months.

# **Insights based on EDA – Khyber Pakhtunkhwa**

1. First peak of COVID19 daily cases observed in Khyber Pakhtunkhwa was in June 2020.
2. This peak was not surpassed in the entire 2020.
3. The mid part of 2020 had maximum peak of 1600+ which shows that COVID19 was more severe in the mid part of the 2020.
4. The First peak of COVID19 daily deaths was observed in the later part of April 2020.
5. The maximum peak touched in 2020 was in June before and after that, there were no significant instances found when the daily death toll surpassed the June 2020 peak.
6. June 2020 had the highest count for the number of daily confirmed cases, while March observed the minimum.
7. The above insights depict a strong correlation between the number of COVID19 cases and the number of deaths.
8. In 2021 May had the maximum cases count and also observed the maximum deaths which supports the above statement.
9. Data depicts similar trend in the usage of Hospital beds and ICU beds in 2020 and 2021.
10. People used mask mostly in June 2020.
11. 2020 was highly affected in terms of mobility with respect to 2021.
12. Temperature seems to be less/not contributing to the number of cases observed.
13. However, wind has very slight impact on the number of cases as there are more COVID19 cases observed in some of the windy months.

# **Insights based on EDA – Azad Jammu and Kashmir**

1. First peak of COVID19 daily cases observed in Azad Jammu and Kashmir was in July 2020.
2. This peak was surpassed in the end of Nov 2020.
3. The later part of 2020 had maximum peak of 160+ which shows that COVID19 was more severe in the later part of the 2020.
4. The First peak of COVID19 daily deaths was observed in the later part of June 2020.
5. The maximum peak touched in 2020 was in Nov before that, there were no significant instances found when the daily death toll surpassed the Nov 2020 peak.
6. Nov 2020 had the highest count for the number of daily confirmed cases, while March observed the minimum.
7. The above insights depict a strong correlation between the number of COVID19 cases and the number of deaths.
8. In 2021 Aug had the maximum cases count and April observed the maximum deaths.
9. Data depicts similar trend in the usage of Hospital beds and ICU beds in 2020 and 2021.
10. People used mask mostly in April 2020.
11. 2020 was highly affected in terms of mobility with respect to 2021.
12. Temperature and wind seem to be less/not contributing to the number of cases observed.

# **Insights based on EDA – Islamabad Capital Territory**

1. First peak of COVID19 daily cases observed in Islamabad Capital Territory was in June 2020.
2. This peak was not surpassed in the entire 2020.
3. The mid part of 2020 had maximum peak of 1400+ which shows that COVID19 was more severe in the mid part of the 2020.
4. The First peak of COVID19 daily deaths was observed in the mid part of June 2020.
5. The maximum peak touched in 2020 was in Dec before that, there were no significant instances found when the daily death toll surpassed the Dec 2020 peak.
6. June 2020 had the highest count for the number of daily confirmed cases, while March observed the minimum.
7. The above insights depict weak correlation between the number of COVID19 cases and the number of deaths.
8. In 2021 March had the maximum cases count and May observed the maximum deaths.
9. Data depicts similar trend in the usage of Hospital beds and ICU beds in 2020 and 2021.
10. People used mask mostly in May 2020.
11. 2020 was highly affected in terms of mobility with respect to 2021.
12. Temperature and wind seem to be less/not contributing to the number of cases observed.

# **Insights based on EDA –** **Gilgit Baltistan**

1. First peak of COVID19 daily cases observed in Gilgit Baltistan was in March 2020.
2. This peak was surpassed in the mid of June 2020 after various ups and down in the trend of number of daily cases
3. The mid part of 2020 had maximum peak of 80+ which shows that COVID19 was more severe in the mid part of the 2020.
4. The First peak of COVID19 daily deaths was observed in July 2020, which was not surpassed in entire 2020.
5. The maximum peak touched in 2020 was lately in July before and after that, there were no significant instances found when the daily death toll surpassed the July 2020 peak.
6. June 2020 had the highest count for the number of daily confirmed cases, while December observed the minimum.
7. The above insights depict a slightly weak correlation between the number of COVID19 cases and the number of deaths.
8. In 2021 July had the maximum cases count and July observed the maximum deaths.
9. Data depicts similar trend in the usage of Hospital beds and ICU beds in 2020 and 2021.
10. People used mask mostly in May 2020.
11. 2020 was highly affected in terms of mobility with respect to 2021.
12. Temperature and wind seem to be less/not contributing to the number of cases observed.

# **Insights based on EDA – Balochistan (Not Final)**

1. First peak of COVID19 daily cases observed in Balochistan was in June 2020.
2. This peak was not surpassed in the entire 2020.
3. The mid part of 2020 had maximum peak of 1400+ which shows that COVID19 was more severe in the mid part of the 2020.
4. The First peak of COVID19 daily deaths was observed in the mid part of June 2020.
5. The maximum peak touched in 2020 was in Dec before that, there were no significant instances found when the daily death toll surpassed the Dec 2020 peak.
6. June 2020 had the highest count for the number of daily confirmed cases, while March observed the minimum.
7. The above insights depict weak correlation between the number of COVID19 cases and the number of deaths.
8. In 2021 March had the maximum cases count and May observed the maximum deaths.
9. Data depicts similar trend in the usage of Hospital beds and ICU beds in 2020 and 2021.
10. People used mask mostly in May 2020.
11. 2020 was highly affected in terms of mobility with respect to 2021.
12. Temperature and wind seem to be less/not contributing to the number of cases observed.