

### **Aims & Objectives of the Project**

- Visualisation of the Data.
- Accidents categorization using States.
- Accident categorization based on the nature of the injured victims.
- Accident categorization using Months and Weeks, Days and Hours.
- Accident categorization using Hours and Road conditions.
- Seasonal categorization both for the Germany and North Rhein-Westfalen.
- Various means of road accidents.

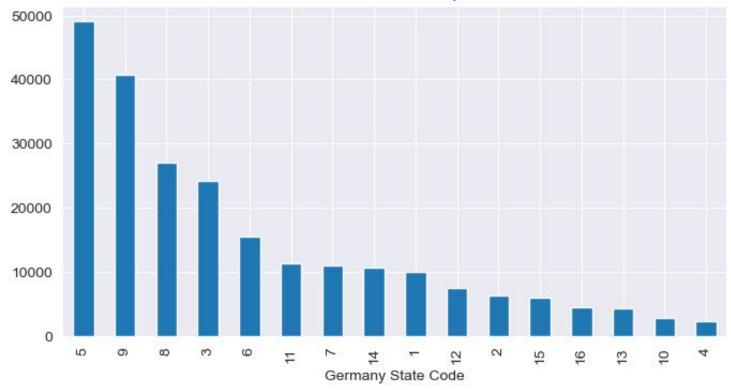


### **Plot of accidents in Germany**

2.5

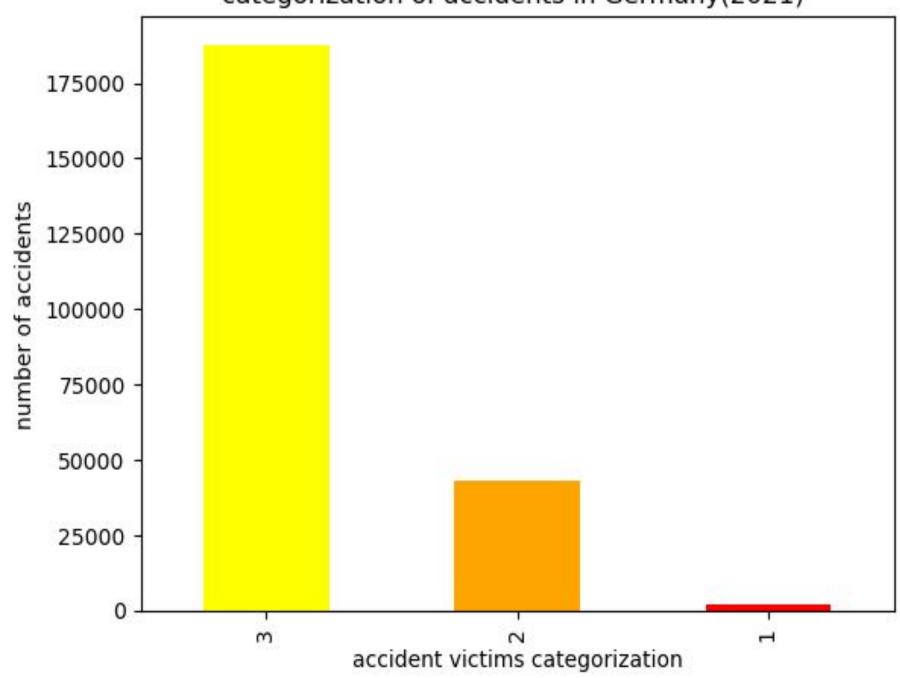
1.5

#### Plot of German accident per States



| Bundesland                  | <b>Population</b> |
|-----------------------------|-------------------|
| 01 = Schleswig-Holstein     | 2 922 005         |
| 02 = Hamburg                | 1 853 935         |
| 03 = Niedersachsen          | 8 027 031         |
| 04 = Bremen                 | 676 463           |
| 05 = Nordrhein-Westfalen    | 17 924 591        |
| 06 = Hessen                 | 6 295 017         |
| 07 = Rheinland-Pfalz        | 4 106 485         |
| 08 = Baden-Württemberg      | 11 124 642        |
| 09 = Bayern                 | 13 176 989        |
| 10 = Saarland               | 982 348           |
| 11 = Berlin                 | 3 677 472         |
| 12 = Brandenburg            | 2 537 868         |
| 13 = Mecklenburg-Vorpommern |                   |
| 14 = Sachsen                | 4 043 002         |
| 15 = Sachsen-Anhalt         | 2 169 253         |
| 16 = Thüringen              | 2 108 863         |
|                             |                   |

#### categorization of accidents in Germany(2021)

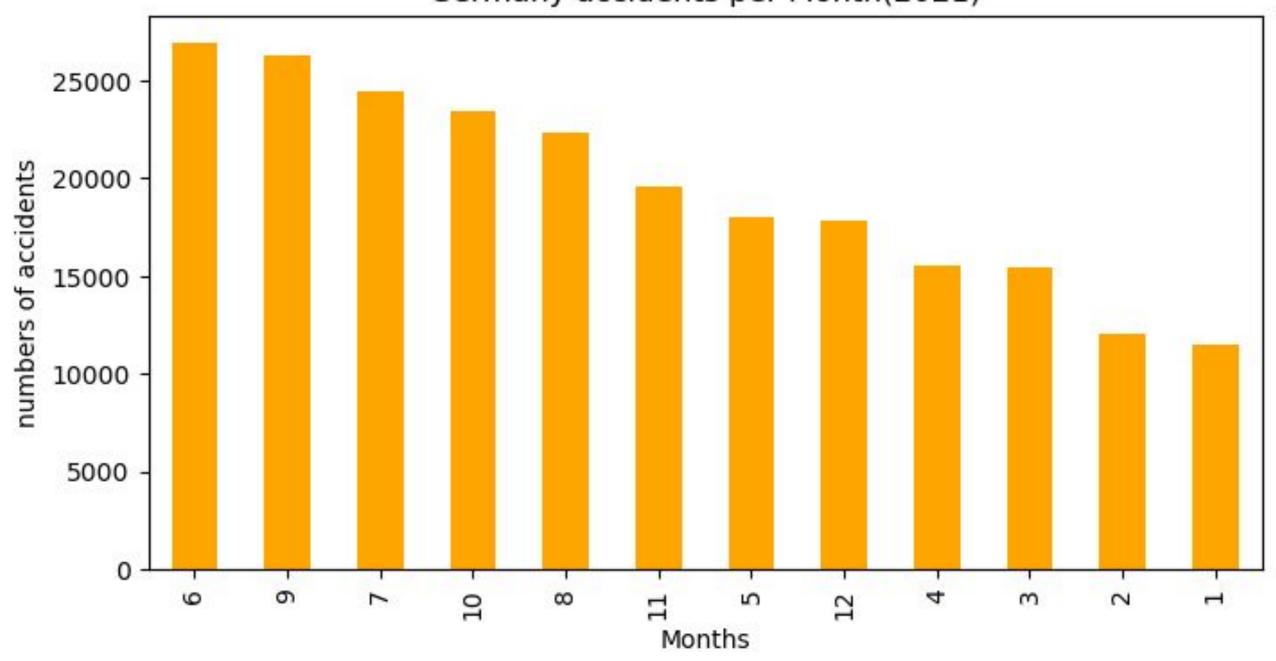


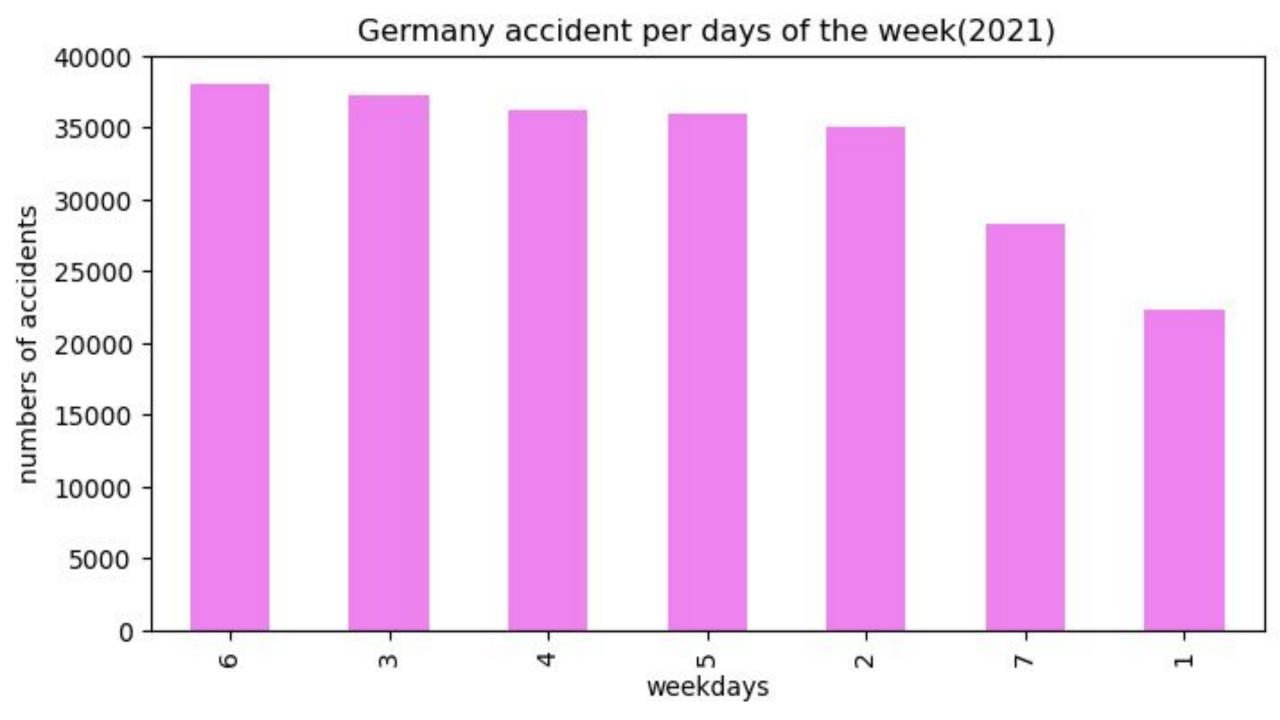
1 = Accident with Death

2 = Accident with seriously injured

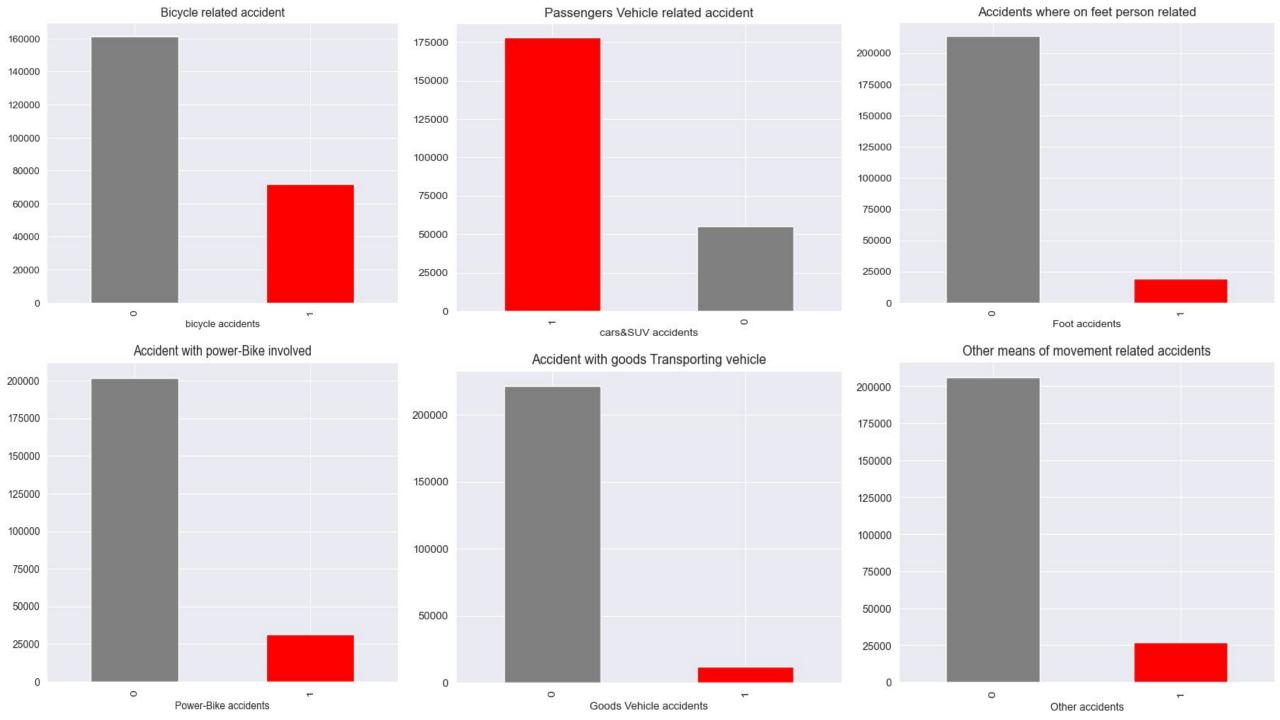
3 = Accident with minor injuries

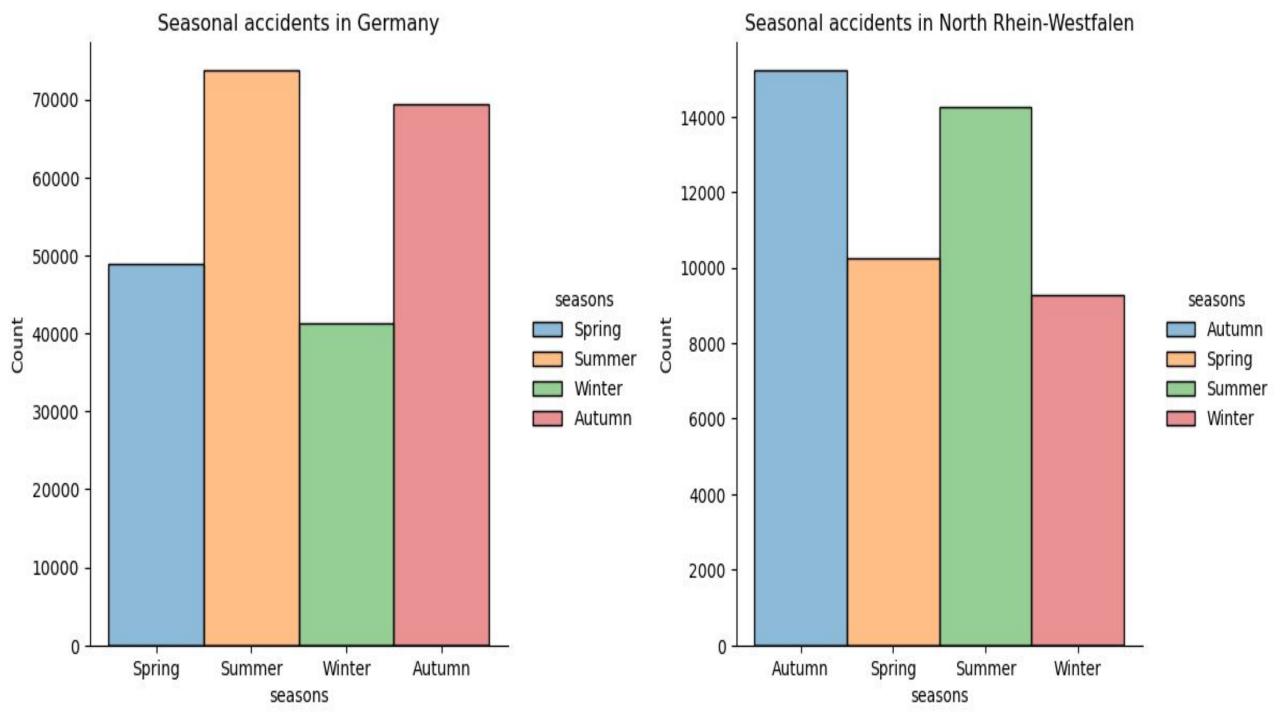
Germany accidents per Month(2021)

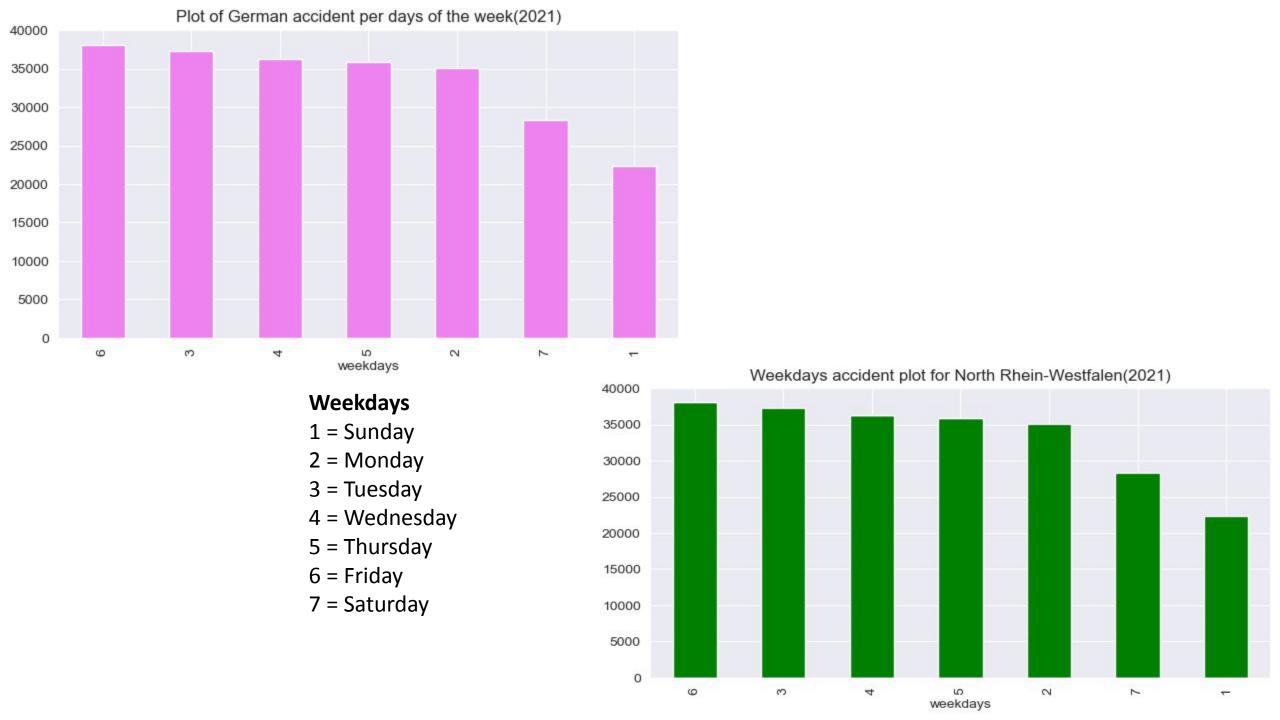


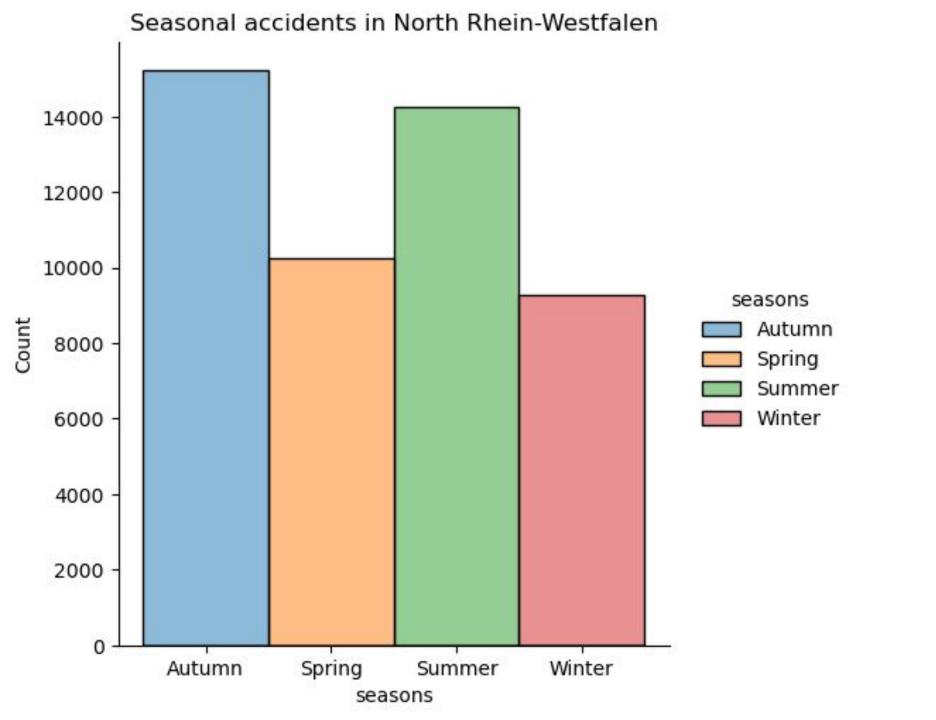


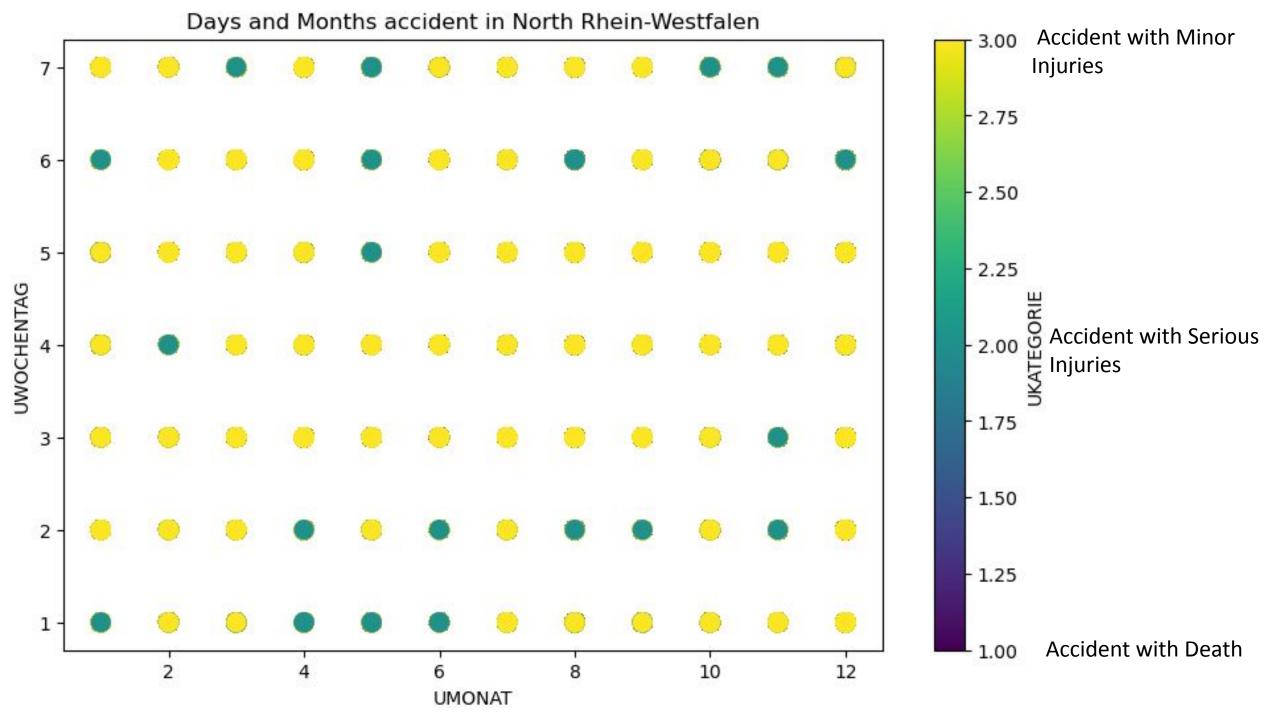


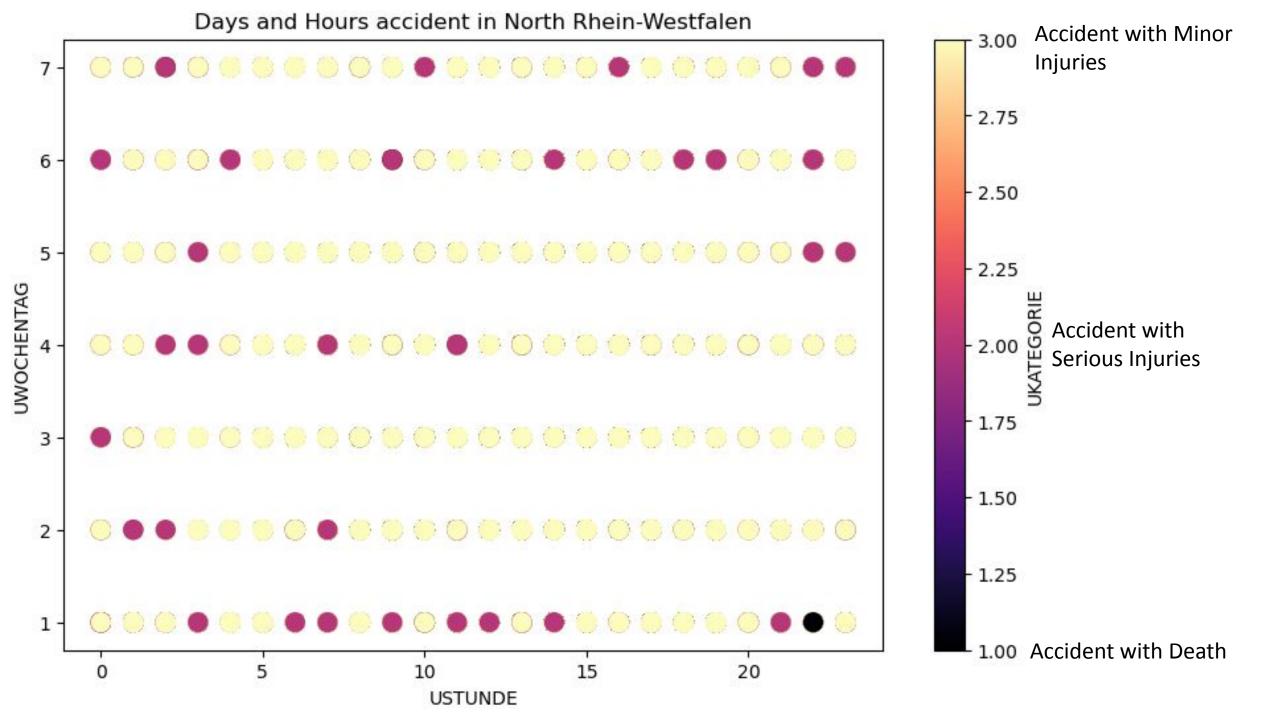




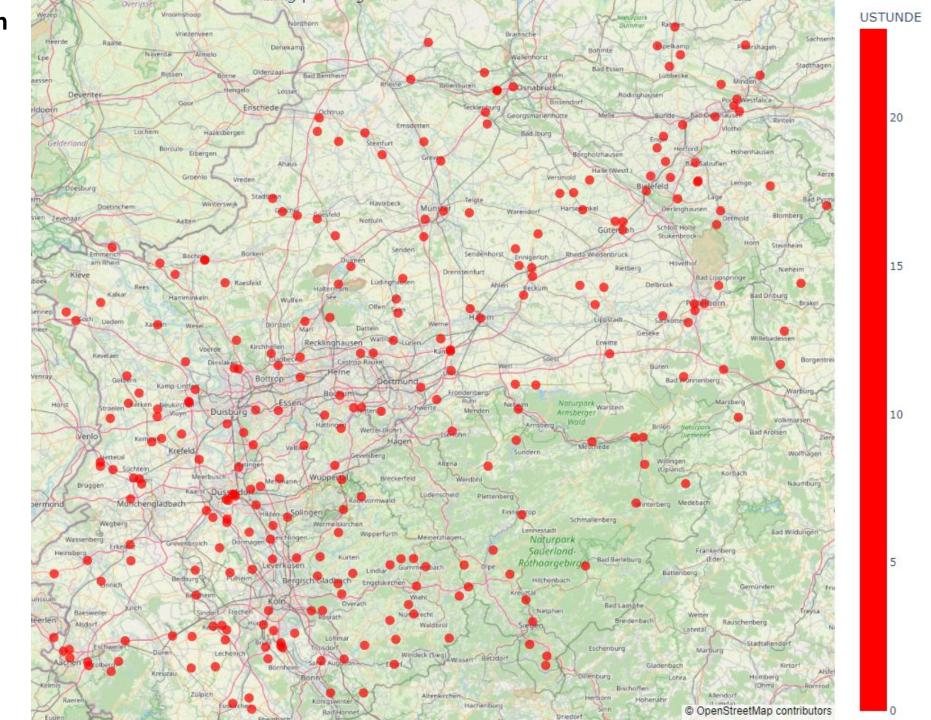




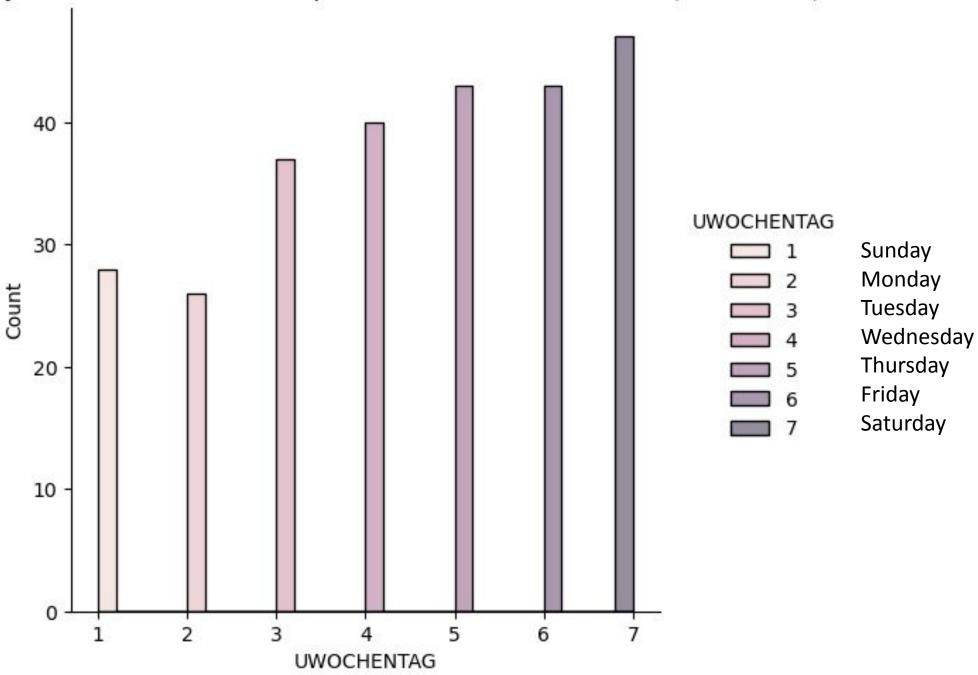




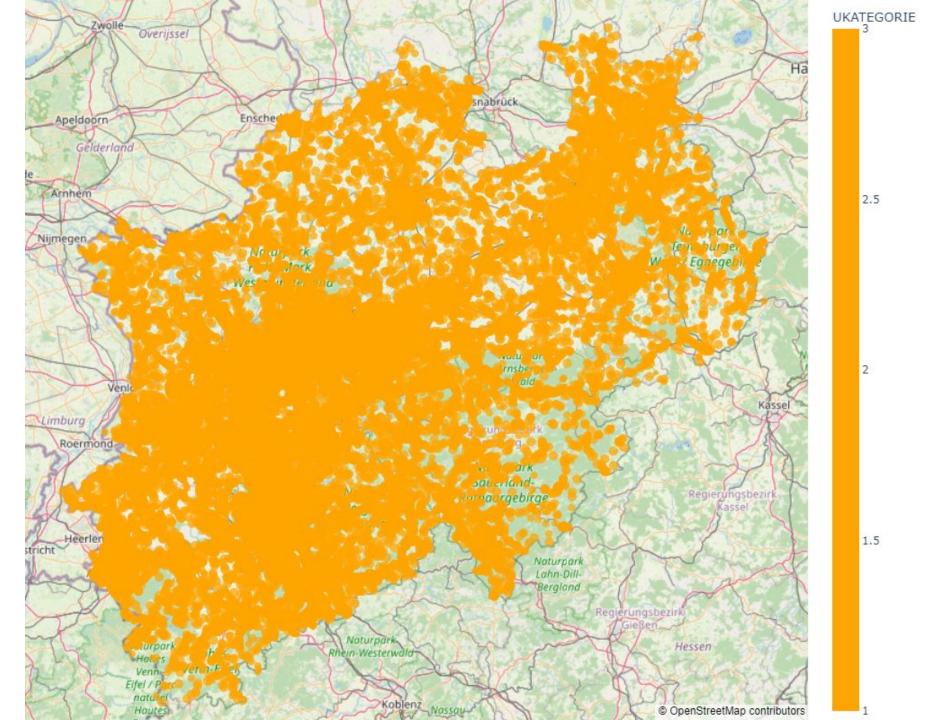
## Death related accident in North Rhein-Westfalen



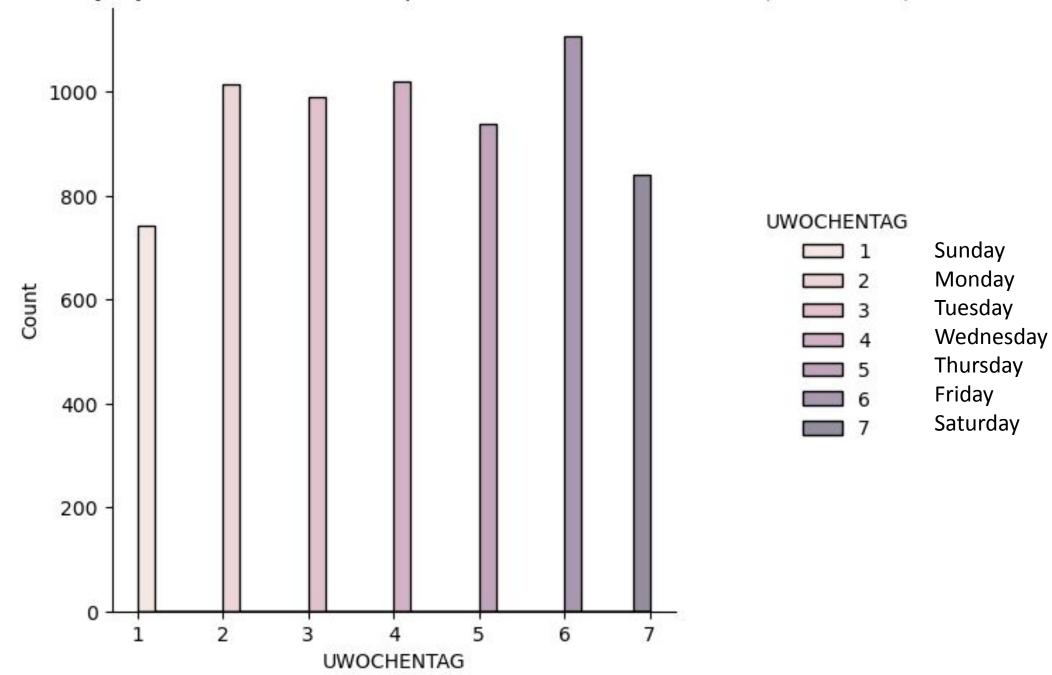
Weekdays accident death victims plot for North Rhein-Westfalen(Cars&SUVs)

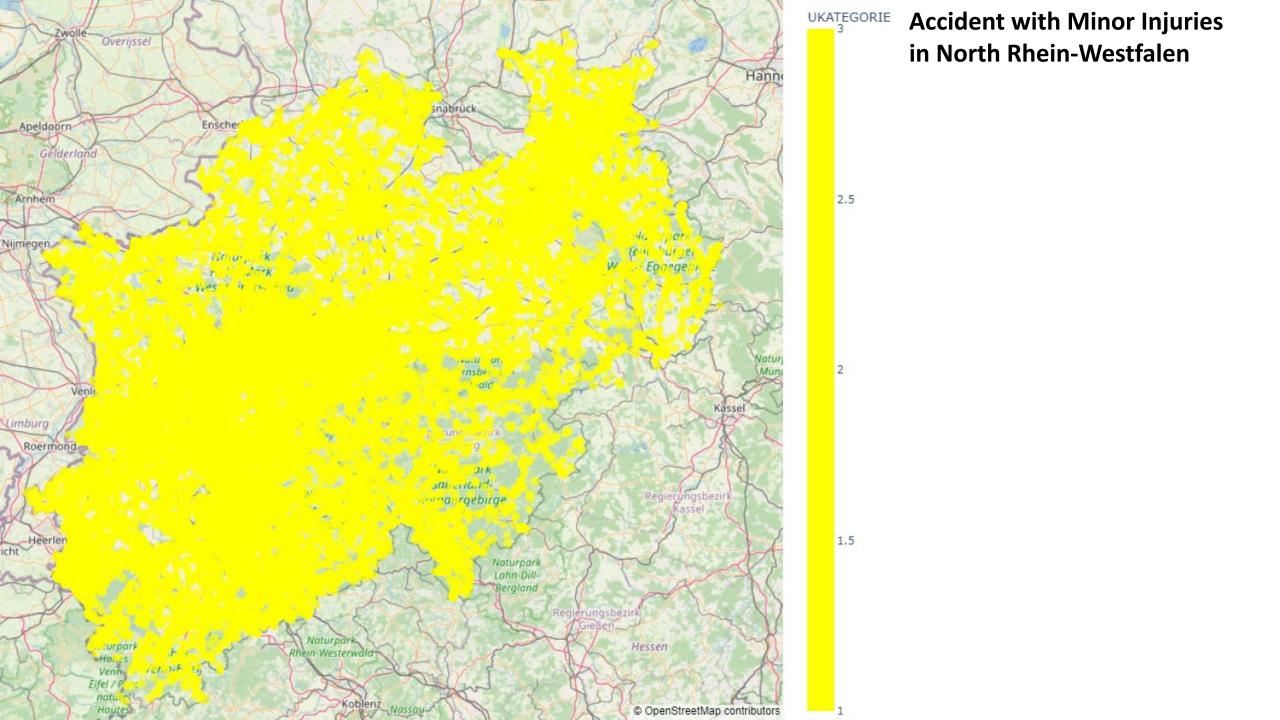


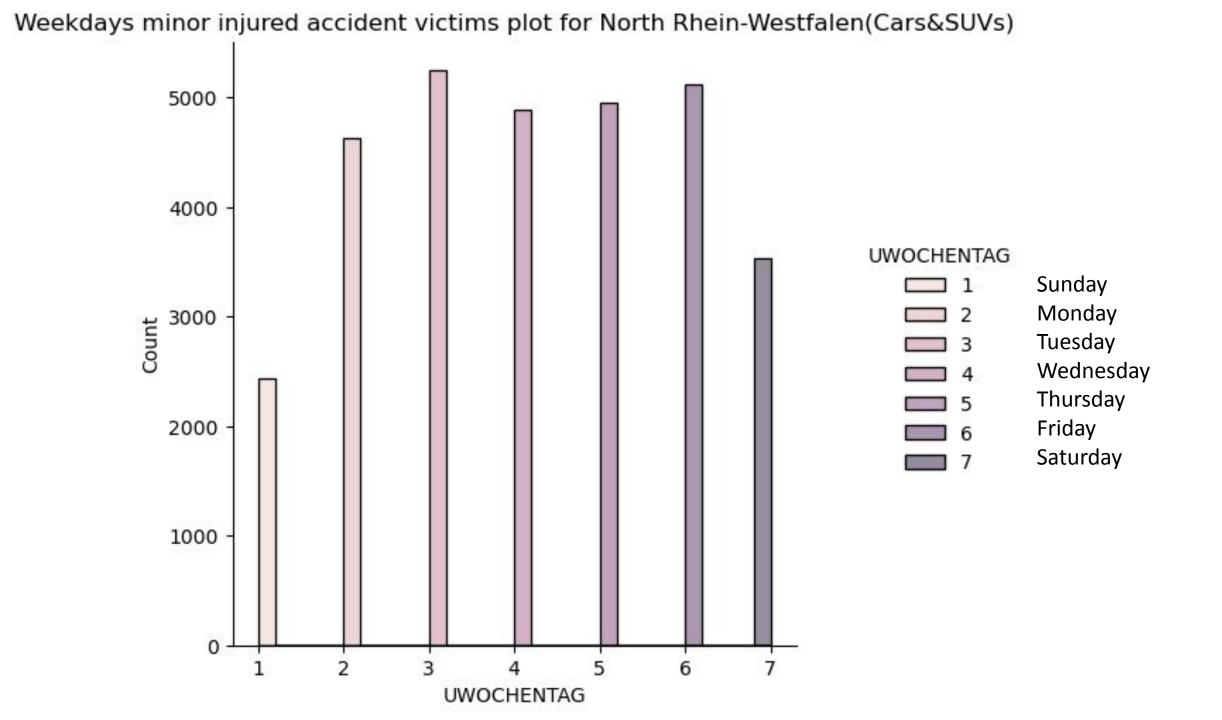
# Accident with Serious Injuries in North Rhein-Westfalen



Weekdays seriously injured accident victims plot for North Rhein-Westfalen(Cars&SUVs)







### Accident with Death recorded using weekdays

#### Weekday:

1 = Sunday

2 = Monday

3 = Tuesday

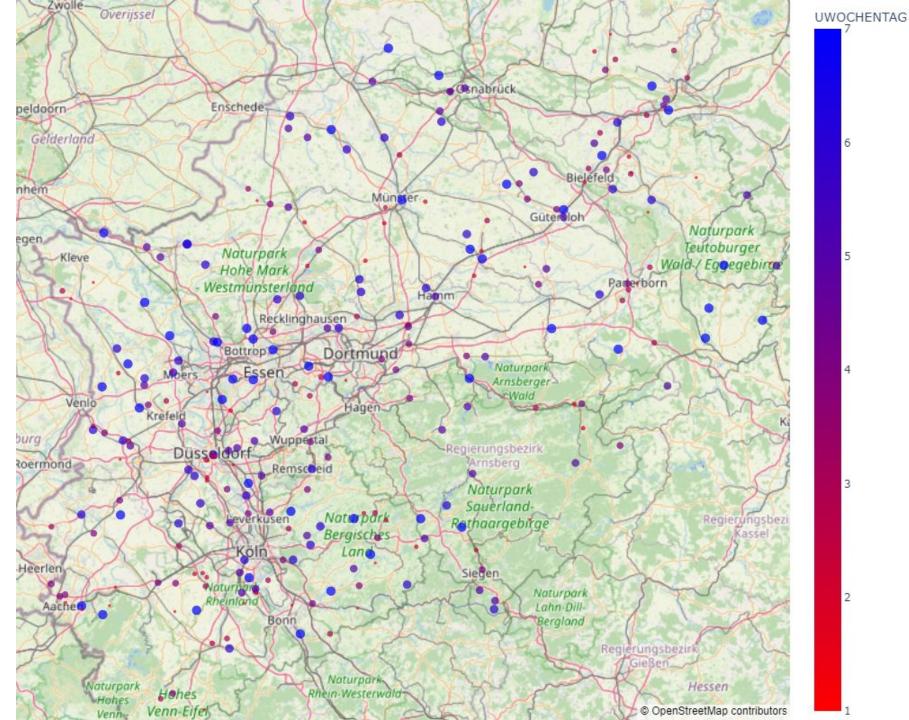
4 =

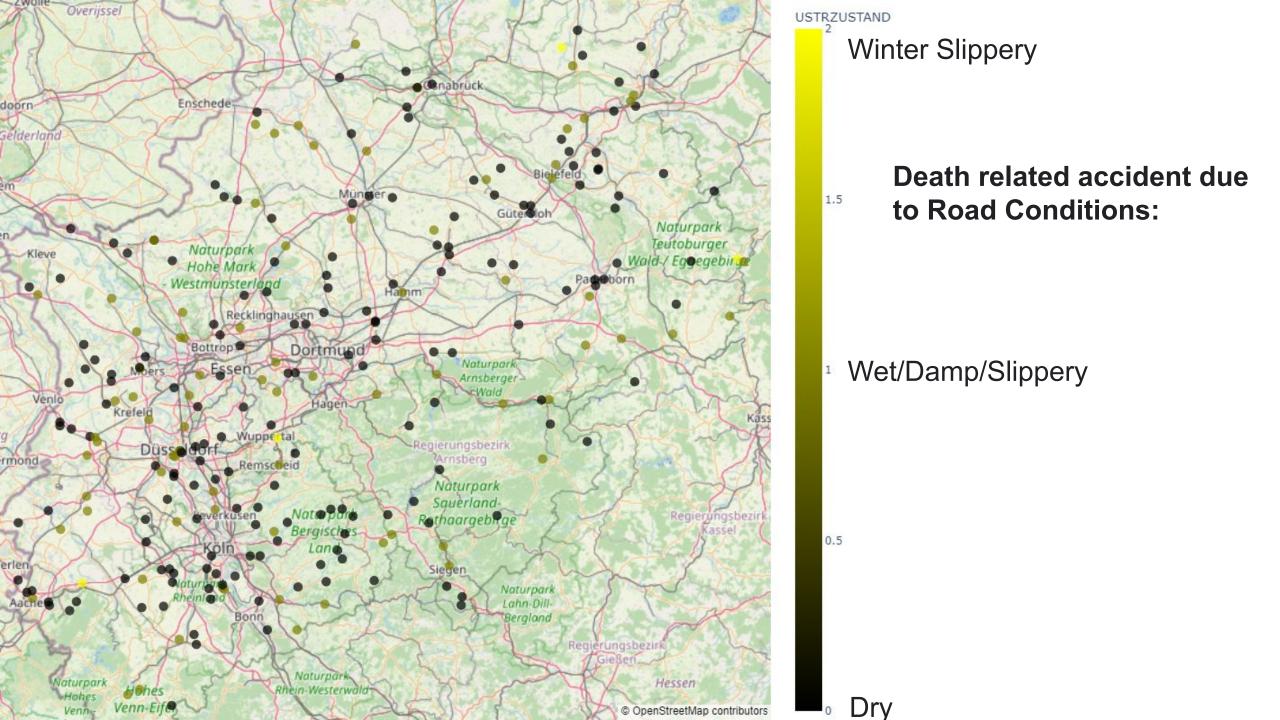
Wednesday

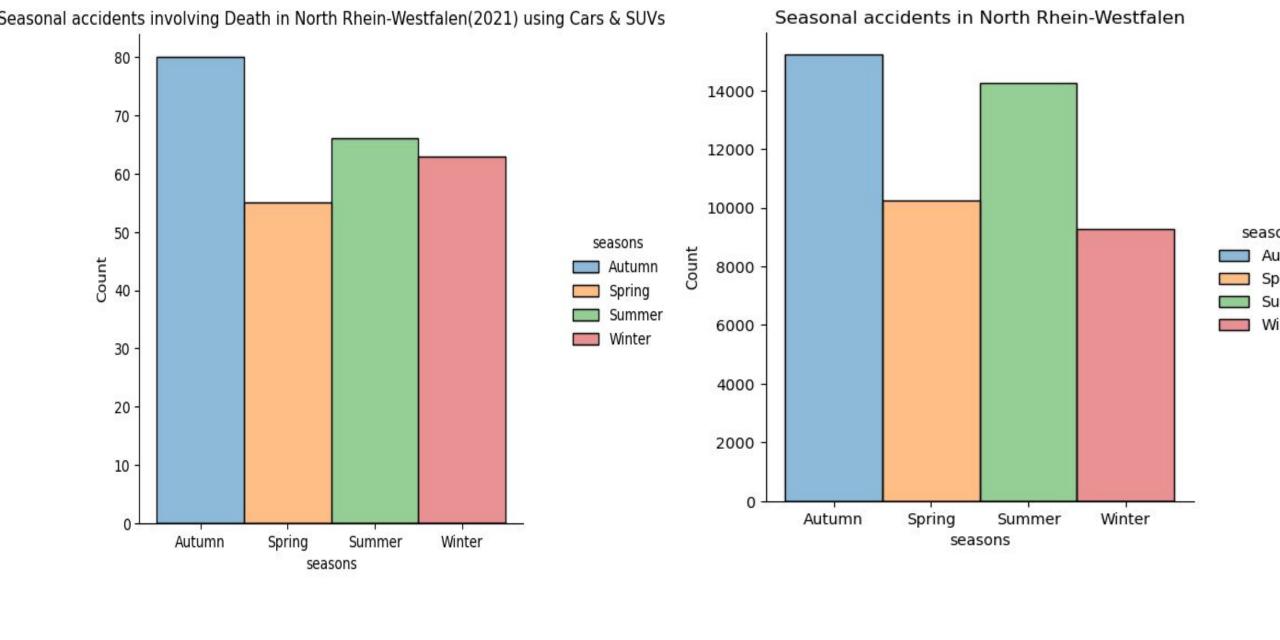
5 = Thursday

6 = Friday

7 = Saturday







### **CONCLUSIONS**

- 1. The greater the population of the state, the greater the amount of road accident happening with exception of Hamburg.
- 2. Death related accidents are ~ 1%, accident related to seriously injured are ~ 19%, accident related to minor injuries account for the rest 80% of the total accident recorded for the Year 2021 in Germany.
- 3. More accidents occur in the last six Months of the Year compare to the first six Months of the Year
- 4. Number of accidents happening during the day time and when the roads are dry are far more than the accidents that happens during Wet, Damp, Slippery, Winter Slippery, night time and Twilight put together.