

Final Project (Tesla Death)

Group 4 (CDS 101)

2025-12-08

```
library(tidyverse)

## Warning: package 'tidyverse' was built under R version 4.5.2

## Warning: package 'ggplot2' was built under R version 4.5.2

## Warning: package 'tibble' was built under R version 4.5.2

## Warning: package 'tidyrr' was built under R version 4.5.2

## Warning: package 'readr' was built under R version 4.5.2

## Warning: package 'purrr' was built under R version 4.5.2

## Warning: package 'dplyr' was built under R version 4.5.2

## Warning: package 'stringr' was built under R version 4.5.2

## Warning: package 'forcats' was built under R version 4.5.2

## Warning: package 'lubridate' was built under R version 4.5.2

## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## * dplyr     1.1.4    * readr     2.1.5
## *forcats   1.0.1    * stringr  1.6.0
## * ggplot2   4.0.0    * tibble    3.3.0
## * lubridate 1.9.4    * tidyrr    1.3.1
## * purrr    1.2.0
## -- Conflicts ----- tidyverse_conflicts() --
## * dplyr::filter() masks stats::filter()
## * dplyr::lag()   masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(dplyr)

library(readr)
Tesla_Deaths_Deaths_1_ <- read_csv("Tesla_Deaths_Deaths_1_.csv")
```

```
## New names:  
## Rows: 296 Columns: 24  
## -- Column specification  
## ----- Delimiter: "," chr  
## (20): Date, Country, State, Description, Tesla driver, Tesla occupant, 0... dbl  
## (3): Case #, Year, Deaths lgl (1): Deceased 4  
## i Use 'spec()' to retrieve the full column specification for this data. i  
## Specify the column types or set 'show_col_types = FALSE' to quiet this message.  
## * ' -> '...17'  
## * ' -> '...18'
```

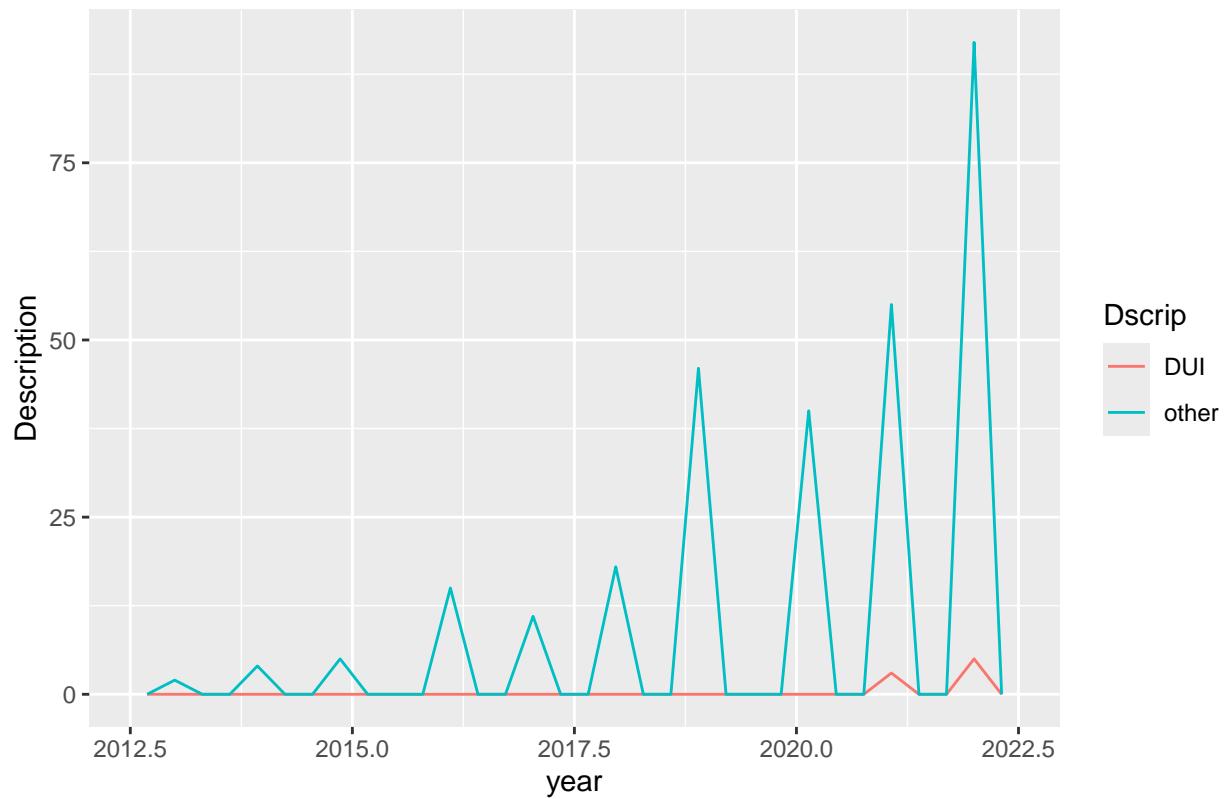
```
New_Tesla <- Tesla_Deaths_Deaths_1_ %>%  
mutate(  
  Dscrip = if_else(  
    str_detect(Description, "DUI"),  
    "DUI",  
    "other"  
)  
)
```

```
view(New_Tesla)
```

```
New_Tesla %>%  
ggplot() +  
  geom_freqpoly(aes(x = Year, color = Dscrip, )) +  
  labs(  
    title = "DUI",  
    x = "year",  
    y = "Description"  
)
```

```
## 'stat_bin()' using 'bins = 30'. Pick better value 'binwidth'.
```

DUI



```
New_Tesla %>%
  count(Dscrip)
```

```
## # A tibble: 2 x 2
##   Dscrip     n
##   <chr>   <int>
## 1 DUI        8
## 2 other      288
```

```
New_Tesla %>%
  count(Dscrip) %>%
  mutate(percent = n / sum(n) * 100)
```

```
## # A tibble: 2 x 3
##   Dscrip     n percent
##   <chr>   <int>  <dbl>
## 1 DUI        8    2.70
## 2 other      288   97.3
```

DUI make up 2.5 percent of the Tesla deaths in the years 2013 - 2022.