

Final Project (Tesla Death)

Group 4 (CDS 101)

2025-12-06

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v ggplot2    3.5.2      v tibble    3.3.0
## v lubridate  1.9.4      v tidyr     1.3.1
## v purrr      1.1.0
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(dplyr)
```

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

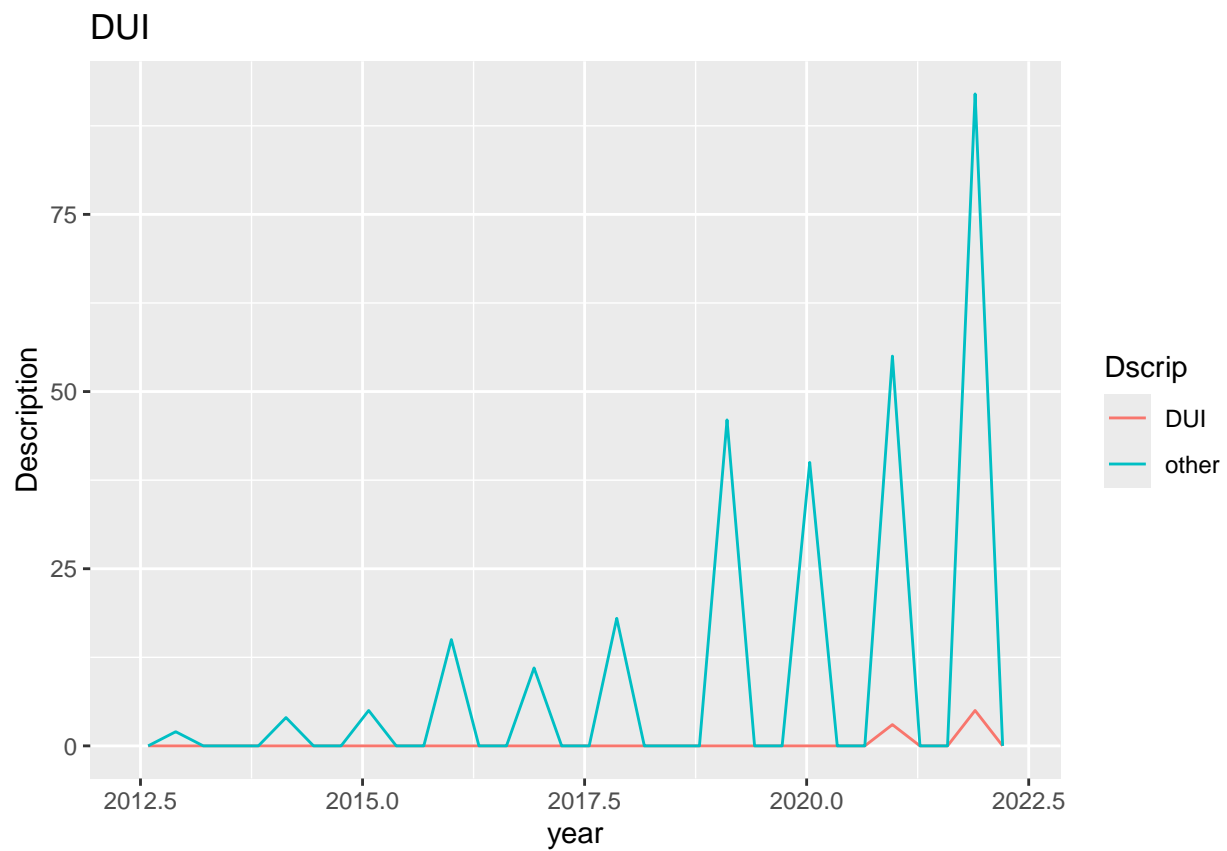
```
## New names:
## Rows: 296 Columns: 24
## -- Column specification
## ----- Delimiter: "," chr
## (20): Date, Country, State, Description, Tesla driver, Tesla occupant, 0... dbl
## (3): Case #, Year, Deaths lgl (1): Deceased 4
## i Use 'spec()' to retrieve the full column specification for this data. 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 with 'binwidth'.
```



```
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.