

## Overview

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### Introduction

#### **Data Source- Kaggle**

This project investigates road accident causes like weather, road types, and vehicles to enhance safety measures.

The goal is to reduce injuries and fatalities through improved infrastructure and increased public awareness.

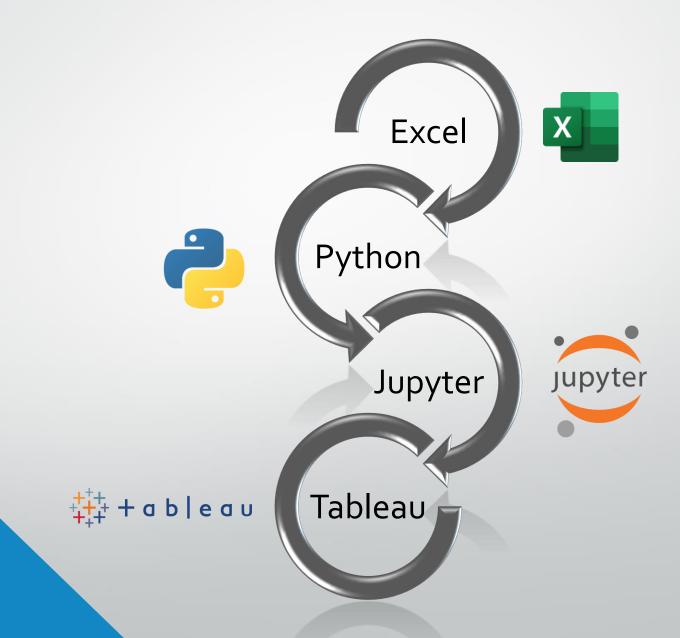


# **Process**





# **Tools Stack**



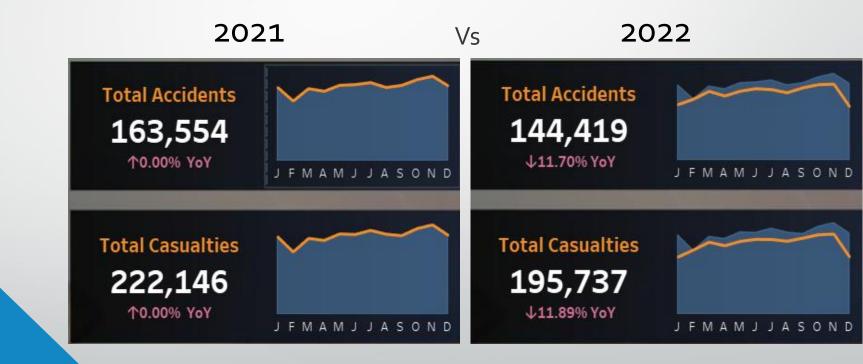


# Purpose of analysis

- Analysing data to understand the patterns and causes of road accidents.
- Analysis of total accidents and casualties vary monthly and yearly, considering different locations.
- Analyzing data to comprehend the severity of accidents (fatal, serious, slight) by examining vehicle type, road type, road surface, and weather conditions.
- Aiming to improve preventive measures and reduce injuries and economic losses.

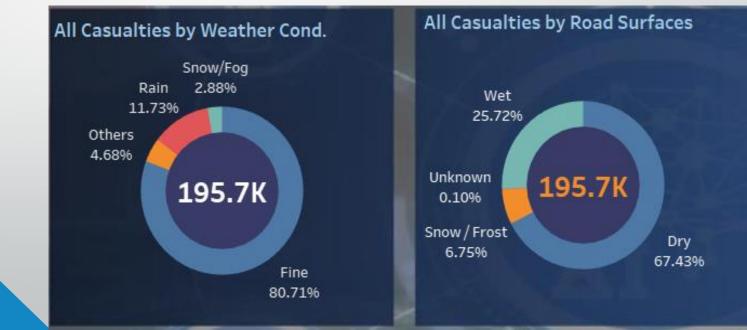


- ➤ Highest number of accidents and casualties in November for both years.
- > Decrease in December for 2022.
- > Decrease in February for 2021.





- ➤ Majority of accidents happen in clear weather conditions.
- Majority of accidents occur on dry road surfaces.
- > Fewer accidents in snowy, wet, or foggy conditions.

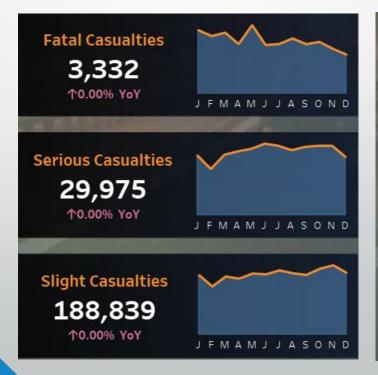




#### **Accident Severity-**

- Overall decline in all types of accident severities in 2022.
- ➤ In 2021, there was a fluctuation and variation across different months.

2021 2022







- Vehicle Type-
- > In 2022, overall casualties by vehicle type decreased.
- Bus-related casualties experienced a slight increase.

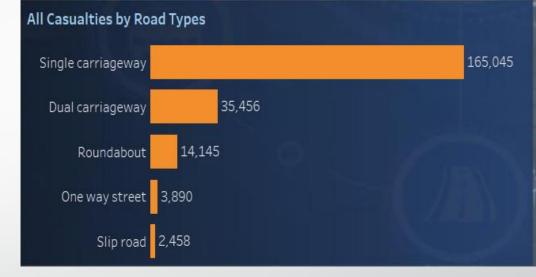




#### Road Types-

- All kinds of accident severity predominantly occurred on single carriageways
- Minimum recorded on slip roads

2021



2022





Location-Identified high accident occurrences in many locations like Barnet and Southwark

Corresponding casualties and vehicle involvement were

notable



## Challenges

- > The data was quite large, causing delays in loading.
- ➤ Encountered challenges in generating sparklines while developing KPIs.

#### Future moves

- Analyzing important factors: time, age, gender, and location.
- Investigating the influence of lighting on road safety.
- Enhance understanding and contribute valuable insights for improving road safety measures.





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