



EXPLORATORY DATA ANALYSIS ON US ACCIDENTS



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What is Exploratory Data Analysis ?

Exploratory Data Analysis Exploratory Data Analysis is a data analytics process to understand the data in depth and learn the different data characteristics, often with visual means. This allows you to get a better feel of your data and find useful pattern in it.

This Analysis is on USA Accidents

The analysis is carried out in order to find out the causes of the accidents and ways to prevent further accidents from occurring as well as drawing relevant insights and conclusions from the analysis.

Project Case

This Project is an Analysis of a dataset that consists of over a million rows and 49 columns and the link to the dataset is

```
"/kaggle/input/us-accidents/US_Accidents_Dec21_updated.csv"
```

Importing relevant libraries

```
import numpy as np # linear algebra library
import pandas as pd # data processing/manipulation
library)
import matplotlib.pyplot as plt
import seaborn as sns
import os
for dirname, __, filenames in os.walk('/kaggle/input'):
    for filename in filenames:
        print(os.path.join(dirname, filename))
```

Reading and Loading Dataset ready for Exploration

```
#loading the data using pandas
```

```
df=
```

```
pd.read_csv("/kaggle/input/us-accidents/US_Accidents  
_Dec21_updated.csv")
```

```
df.head(10)
```

Summary Statistics

Along side these slides attached both jupyter notebook files and html of steps by steps approach to the Analysis and results of the Analysis