

3.3 3.3 Project Task 2: Executive Summary

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class: DSC640-T302 Data Presentation & Visualization (2221-1)

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37 # Import Packages
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np

38 # Import data into dataframe and get header information
df = pd.read_csv('combined crash and fatality.csv')

39 df = df.rename(columns={"Nb of Crashes": "Crashes"},errors="raise")
df = df.drop(columns=['Year'])

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40 print(df.head(5))
print(df.describe())

```

	Crashes	Fatalities
0	12	4
1	62	33
2	97	54
3	98	42
4	80	69

	Crashes	Fatalities
count	106.000000	106.000000
mean	266.764151	1529.235849
std	146.963070	1016.321167
min	12.000000	4.000000
25%	182.000000	621.250000
50%	262.000000	1609.500000
75%	330.000000	2212.000000
max	944.000000	4700.000000

```

42 # Correlation Matrix
# taking all rows but only 6 columns
correlation_mat = df.corr()
sns.heatmap(correlation_mat, annot = True)
plt.title("Correlation matrix")
plt.show()

```



