

SmartInternz

AIML – Assignment 3

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Assignment 8 th September:

- 1.Take car_crashes dataset from seaborn library
- 2.load the dataset
- 3.Perform Data Visualization
- 4.Inference is must for each and every graph
- 5.Submit it by wednesday in html format

```
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```

```
[1] import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
[2] data = pd.read_csv("/content/car_crashes.csv")
```

```
Descriptive Statistics
```

```
[3] data.head()
```

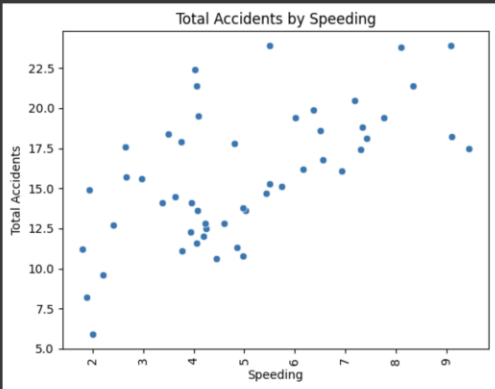
	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_losses	abbrev
0	18.8	7.332	5.640	18.048	15.040	784.55	145.08	AL
1	18.1	7.421	4.525	16.290	17.014	1053.48	133.93	AK
2	18.6	6.510	5.208	15.624	17.856	899.47	110.35	AZ
3	22.4	4.032	5.824	21.056	21.280	827.34	142.39	AR
4	12.0	4.200	3.360	10.920	10.680	878.41	165.63	CA

```
[26] sns.scatterplot(x="speeding", y="total", data=data)
plt.xlabel("Speeding")
plt.ylabel("Total Accidents")
plt.title("Total Accidents by Speeding")
plt.xticks(rotation=90)
plt.show()
```

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```
plt.show()
```



The above graph shows the number of accident caused due to speeding. The graph shows that as the speed increases the number of accidents also increase.

```
[23] sns.scatterplot(x="alcohol", y="total", data=data)
plt.xlabel("alcohol")
plt.ylabel("Total Accidents")
```

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