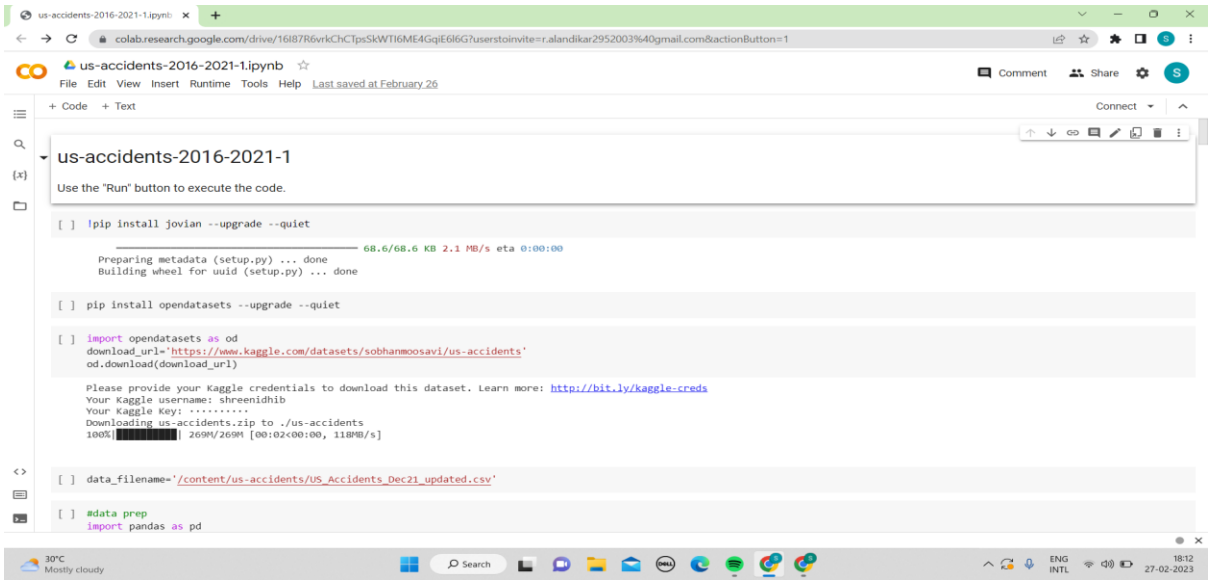
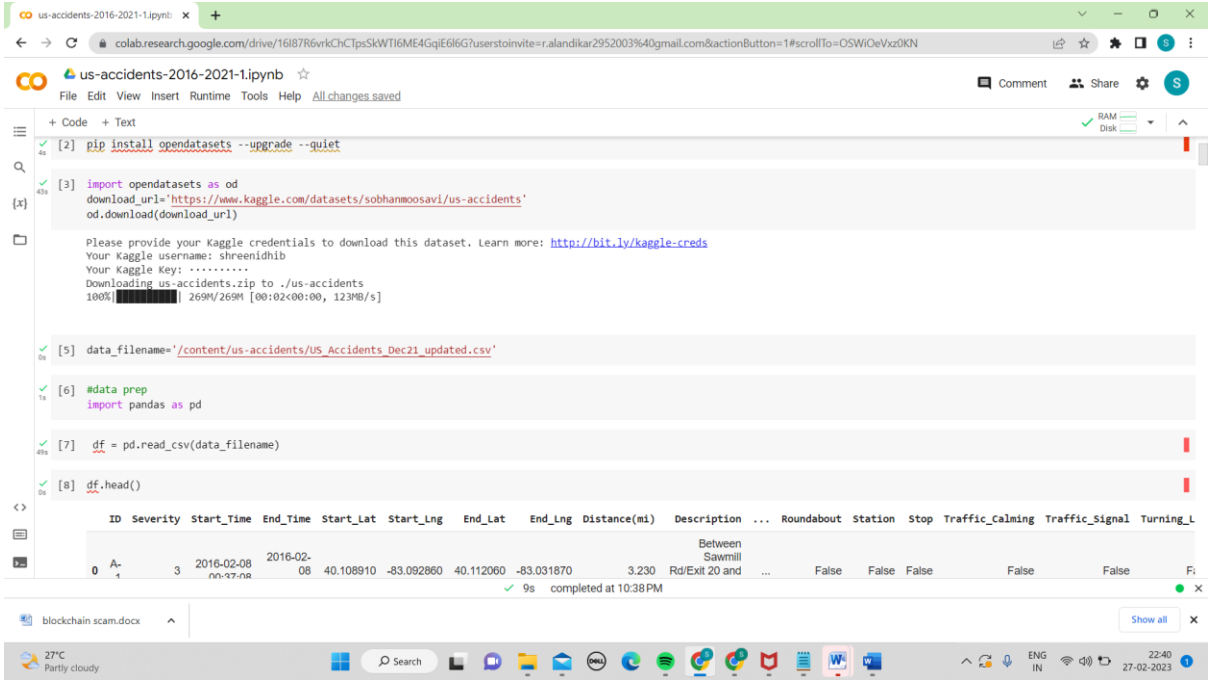
ML-MAJOR-JANUARY-ML-01-MLB2

Dataset taken: tabular dataset of records of us-accidents accounting to almost 4.2 million records





us-accidents-2016-2021-1.ipynb

colab.research.google.com/drive/16l87R6vrkChCTpsSkWTI6ME4GqiE6l6G?userstoinvite=r.alandikar2952003%40gmail.com&actionButton=1#scrollTo=OSWiOeVxz0KN

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[9]

```
       'Humidity(%)', 'Pressure(in)', 'Visibility(mi)', 'Wind_Direction',
       'Wind_Speed(mph)', 'Precipitation(in)', 'Weather_Condition', 'Amenity',
       'Bump', 'Crossing', 'Give_Way', 'Junction', 'No_Exit', 'Railway',
       'Roundabout', 'Station', 'Stop', 'Traffic_Calming', 'Traffic_Signal',
       'Turning_Loop', 'Sunrise_Sunset', 'Civil_Twilight', 'Nautical_Twilight',
       'Astronomical_Twilight'],
      dtype='object')
```

```
len(df.columns)
```

```
47
```

[11]

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2845342 entries, 0 to 2845341
Data columns (total 47 columns):
 #   Column                 Dtype
---  ------                 -----
 0   ID                     object
 1   Severity               int64
 2   Start_Time             object
 3   End_Time               object
 4   Start_Lat              float64
 5   Start_Lng              float64
 6   End_Lat                float64
 7   End_Lng                float64
 8   Distance(mi)           float64
 9   Description            object
 10  Number                 float64
 11  Street                 object
```

9s completed at 10:38 PM

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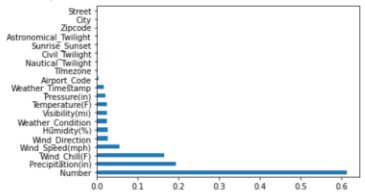
```
missing_percentages[missing_percentages!=0].plot(kind='barh')
```

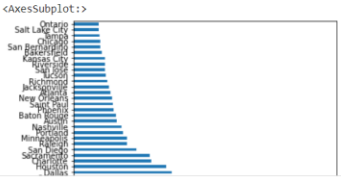
```
<AxesSubplot:>
```



[20]

```
cities_by_accident[:30].plot(kind='barh')
```

```
<AxesSubplot:>
```



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Search

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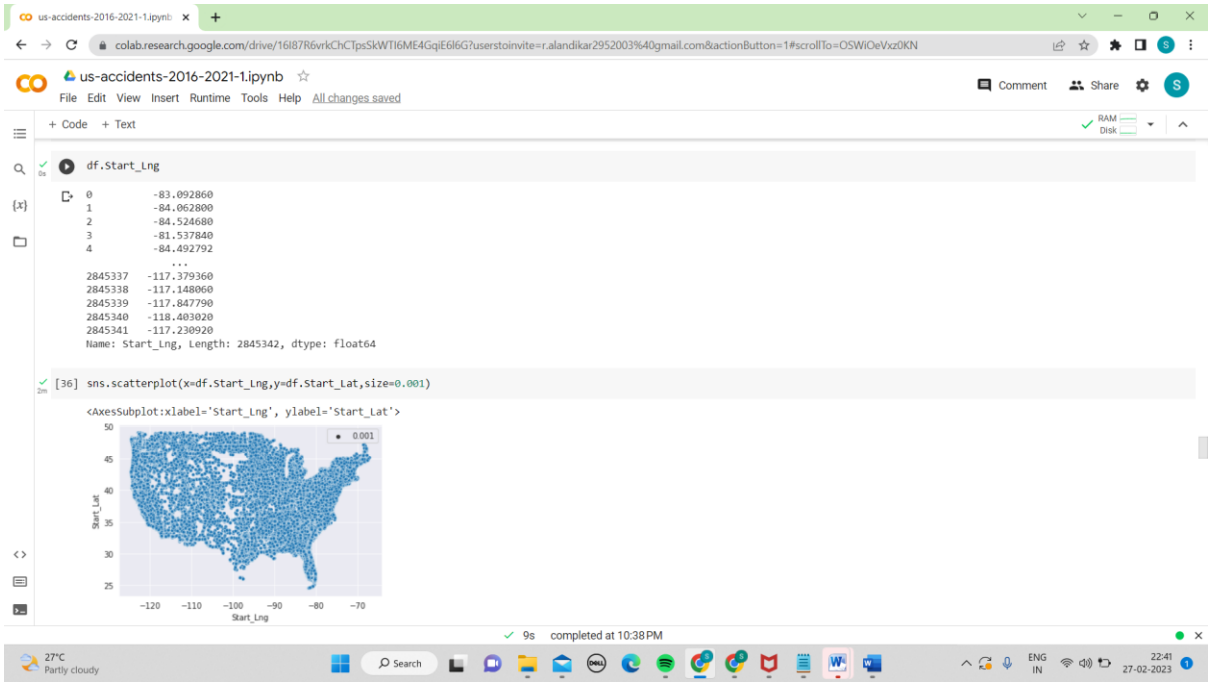
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colab.research.google.com/drive/16l87R6vrkChCTpsSkWTI6ME4GqiE6l6G?userstoinvite=r.alandikar2952003%40gmail.com&actionButton=1#scrollTo=OSWiOeVxz0KN
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RAM
Disk
df.Start_Lng
0 -83.092860
1 -84.062800
2 -84.524680
3 -81.537840
4 -84.492792
...
2845337 -117.379360
2845338 -117.148060
2845339 -117.847790
2845340 -118.403020
2845341 -117.230920
Name: Start_Lng, Length: 2845342, dtype: float64
[36] sns.scatterplot(x=df.Start_Lng,y=df.Start_Lat,size=0.001)
<AxesSubplot:xlabel='Start_Lng', ylabel='Start_Lat'>
0.001
Start_Lat
Start_Lng
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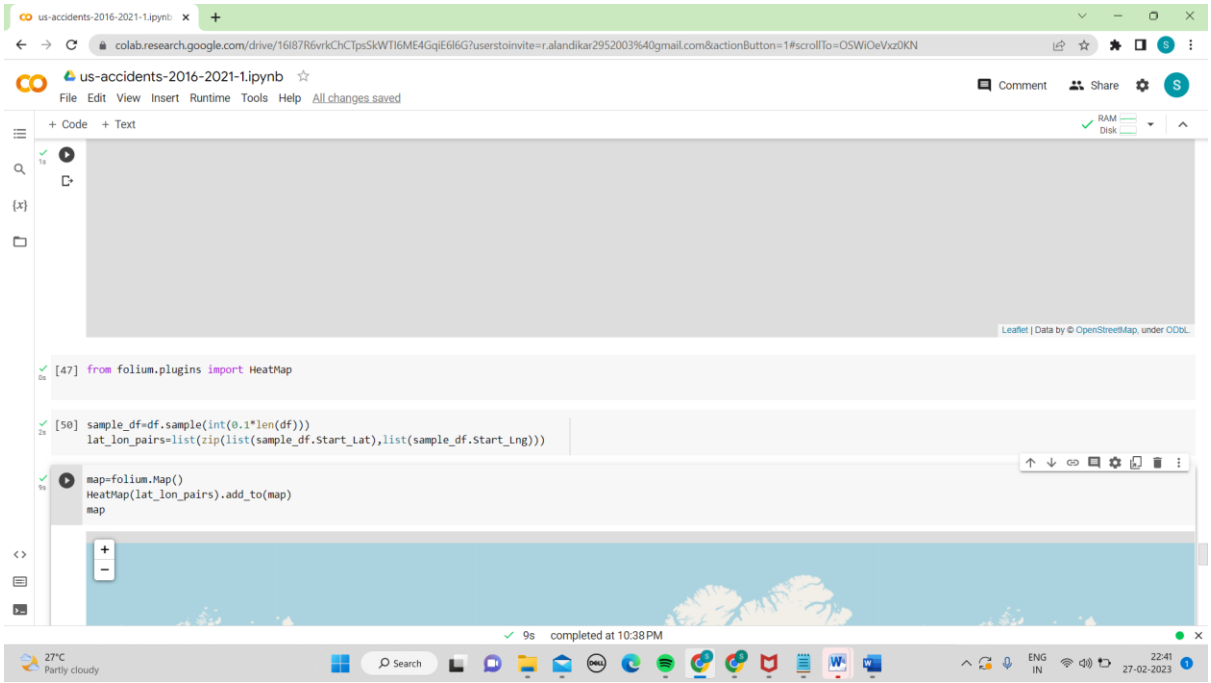
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colab.research.google.com/drive/16l87R6vrkChCTpsSkWTI6ME4GqiE6l6G?userstoinvite=r.alandikar2952003%40gmail.com&actionButton=1#scrollTo=OSWiOeVxz0KN
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Disk
Leaflet | Data by © OpenStreetMap, under ODbL.
[47] from folium.plugins import HeatMap
[50] sample_df=df.sample(int(0.1*len(df)))
lat_lon_pairs=list(zip(list(sample_df.Start_Lat),list(sample_df.Start_Lng)))
map=folium.Map()
HeatMap(lat_lon_pairs).add_to(map)
map
9s completed at 10:38 PM
27°C
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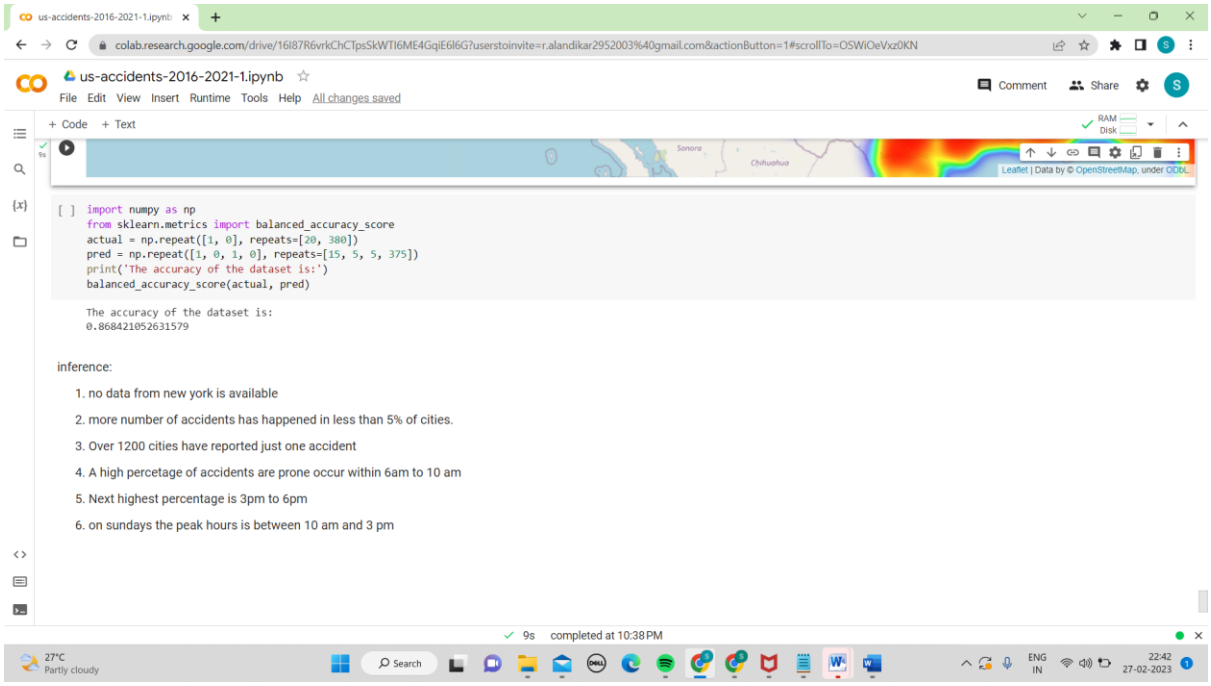
22:41
27-02-2023



Google colab link:
https://colab.research.google.com/drive/16I87R6vrkChCTpsSkWTI6ME4GqiE6l6G?usp=sharing

Kaggle details:

{"username":"shreenidhib","key":"d3f0a2111a7f5200b723940feee94ef3"}