FORMULA 1 RACING

Proposal project for :

Tuwaiq Four Week

the T5 Bootcamp

Submitted by:

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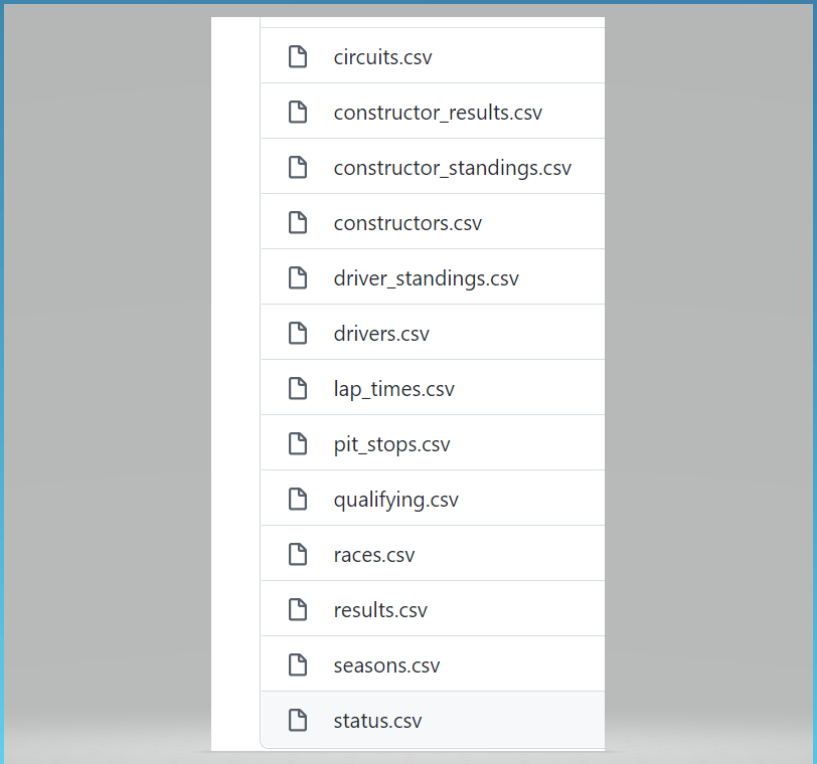
FORMULA ONE (ALSO KNOWN AS FORMULA 1 OR F1)

- How are points calculated for competitors in Formula One races?
- the highest class of international auto racing for single-seater formula racing cars sanctioned by the Fédération Internationale de l'Automobile (FIA).
- Points Official race distances covered and race cut speed must be calculated for each professional driver

DATASET



WE WILL USE 13 DATABASE TABLES TO OBTAIN OUR REQUIRED MODELS.

FROM : ERGAST DEVELOPER API

CSV DATABASE TABLES

```
%matplotlib inline

In [12]: pd.read_csv('lap_times.csv')
```

Out[12]:

	raceId	driverId	lap	position	time	milliseconds
0	841	20	1	1	1:38.109	98109
1	841	20	2	1	1:33.006	93006
2	841	20	3	1	1:32.713	92713
3	841	20	4	1	1:32.803	92803
4	841	20	5	1	1:32.342	92342
...	...	...	...	...	...	...
509017	1069	853	50	17	1:43.148	103148
509018	1069	853	51	17	1:50.102	110102
509019	1069	853	52	17	1:45.020	105020
509020	1069	853	53	17	1:44.245	104245
509021	1069	853	54	17	1:44.680	104680

509022 rows × 6 columns

Each database contains different items about the driver, time, race type, race location and race finish time.

The datasets are available as the .csv files

TOOLS :

THERE ARE TOOLS THAT WILL BE USED TO ACHIEVE THE GOAL OF THIS STUDY, SUCH AS: TENSORFLOW, MATPLOTLIB, PANDAS, NLTK FOR DISCOVERING THE DATA AND TRAIN A MODEL. THE WORK WILL BE DONE THROUGH JUPYTER NOTEBOOK.

FURTHERMORE, THE SENTIMENT ANALYSIS FROM NLTK WILL BE USED TO DETERMINE THE TARGET OF THE DATA IN ORDER TO TRAIN THE MODEL IN SUPERVISED MANNER.