Work to be done-

1) Find API to fetch required F1 data

2) Find appropriate model to train

3) Do testing

4) Hyperparameter training

5) Finalize and validate models on upcoming races

1)

a) Should consider using the Ergast API

But the issue with that is that it is deprecated and will only last until the end of the year

http://ergast.com/api/f1/...

To specify the current season the <season> field may be set to “current”. To specify the previous or next race within a season the <round> field may be set to “last” or “next” respectively. For example:

http://ergast.com/api/f1/2005/last/...

<http://ergast.com/api/f1/current/next/>...

Could just use requests. Get and fetch the json data from this url

For example, to list all seasons where a specific driver has driven for a particular constructor:

<http://ergast.com/api/f1/drivers/alonso/constructors/renault/seasons>

Alternatively, to list the seasons where a specific driver or constructor has achieved a particular final position in the championship:

<http://ergast.com/api/f1/drivers/alonso/driverStandings/1/seasons>

b) another option is the FastF1 API

they are trying to replace ergast but may not be as good

but the advantage is that it might be futureproof, so could be better