Weekly Project Meeting Minutes

Time group spent on project: 8 hours

Group Number: 5

Group members present (Name, ID):

- Mohit Asija 0734856
- Gurmanjit Singh Sahni 0734775
- Pratik Prashant Teredesai 0734870

Specific Activities from prior week:

- Gurmanjit Singh Sahni has read research papers related to our capstone field.
- Mohit Asija has made flow chart on how our project is doing so far.
- Pratik Prashant Teredesai has worked on data cleaning part.
- And we all have collectively worked on connecting the database to python.

Specific Output from prior week:

```
In [6]: import pandas as pd

In [7]: import os.path

In [8]: import sqlite3

In [9]: conn = sqlite3.connect("dta.sqlite")

In [11]: df = pd.read_sql_query("SELECT FIRE_YEAR FROM Fires;",conn)
         print(df)

         FIRE_YEAR
0             2005
1             2004
2             2004
3             2004
4             2004
...            ...
1880460       2015
1880461       2015
1880462       2015
1880463       2015
1880464       2015

[1880465 rows x 1 columns]

In [ ]:
```

```
In [12]:
import pandas as pd
import os.path
import sqlite3

In [13]:
conn = sqlite3.connect("dta.sqlite")

In [16]:
df = pd.read_sql_query("SELECT * FROM Fires;",conn)
df.head()
```

Out[16]:

	OBJECTID	FOD_ID	FPA_ID	SOURCE_SYSTEM_TYPE	SOURCE_SYSTEM	NWCG_REPORTING_AGENCY	NWCG_REPORTING_UNIT_ID	NWCG_REPORTI
0	1	1	FS-1418826	FED	FS-FIRESTAT	FS	USCAPNF	Pluma
1	2	2	FS-1418827	FED	FS-FIRESTAT	FS	USCAENF	Eldorad
2	3	3	FS-1418835	FED	FS-FIRESTAT	FS	USCAENF	Eldorad
3	4	4	FS-1418845	FED	FS-FIRESTAT	FS	USCAENF	Eldorad
4	5	5	FS-1418847	FED	FS-FIRESTAT	FS	USCAENF	Eldorad

5 rows × 39 columns

On Target:

- Indicate the current status of your project
    - green: everything on track for completion by due date

Challenges/Disagreements:

- We had a difficulty connecting our database to python but special thanks to our professor we have overcome this problem now we are good to go we have already started data cleaning part.

Planned Activities for coming week:

- We will be completing data cleaning part and we will start building models.

Links for Literature review:

- (2020). Retrieved 5 March 2020, from https://www.maplesoft.com/applications/download.aspx?SF=154467/forest_fires.pdf
- Modeling Wildfire Ignition Distribution and Making Prediction of Human-caused Wildfire - ProQuest. (2020). Retrieved 5 March 2020, from https://search.proquest.com/openview/e2ab5b2f67a0808a27b4dd4d5e6731c3/1?pq-origsite=gscholar&cbl=1976349
- Modeling Wildfire Ignition Distribution and Making Prediction of Human-caused Wildfire - ProQuest. (2020). Retrieved 5 March 2020, from https://search.proquest.com/openview/e2ab5b2f67a0808a27b4dd4d5e6731c3/1?pq-origsite=gscholar&cbl=1976349
- We trained an AI to predict how bad a forest fire will be. It's just as good as a coin flip!. (2020). Retrieved 5 March 2020, from https://www.theregister.co.uk/2019/09/19/forest_fire_prediction/
- (2020). Retrieved 5 March 2020, from https://iopscience.iop.org/article/10.1088/1755-1315/54/1/012059/pdf