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Internship Batch: LISUM13:30

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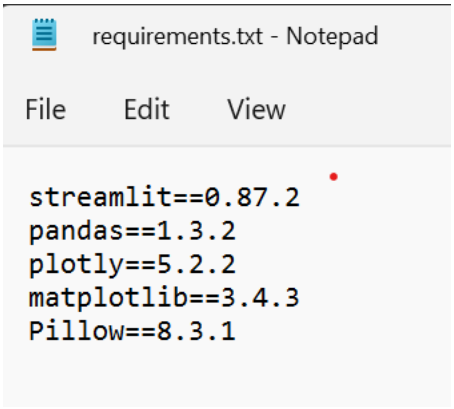
Submitted to: Data Glacier

Week 5: Cloud and API deployment

VIM- Streamlit- Git-Heroku

Dataset info- General Social Survey Data of education, income & happiness

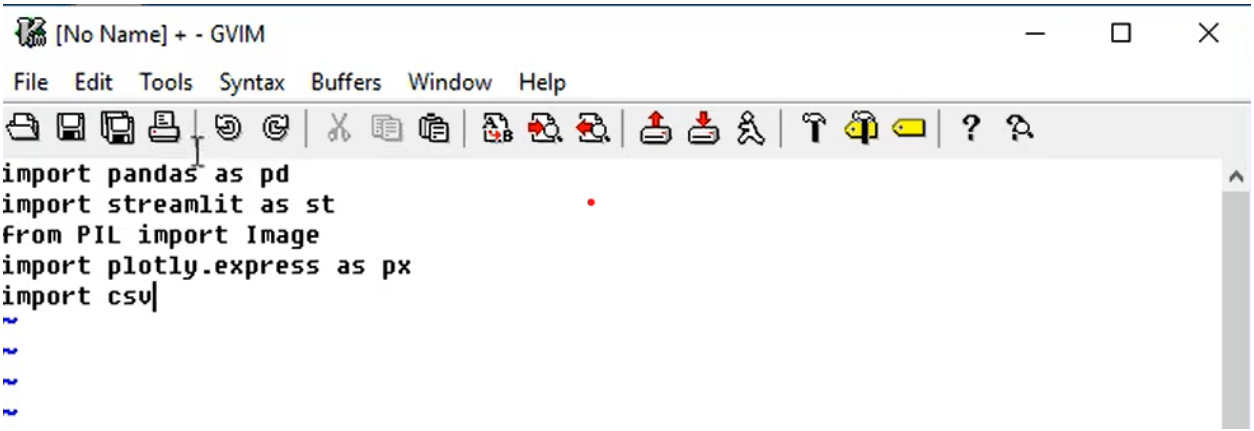
Installing the requirements




```
(base) C:\Users\innam\Desktop\Week 5>pip install -r requirements.txt
```

For this project we are coding in VIM

Creating app.py




```
gss_data=pd.read_csv("C:\Jupyter\gss2016.csv",delimiter=",")
```

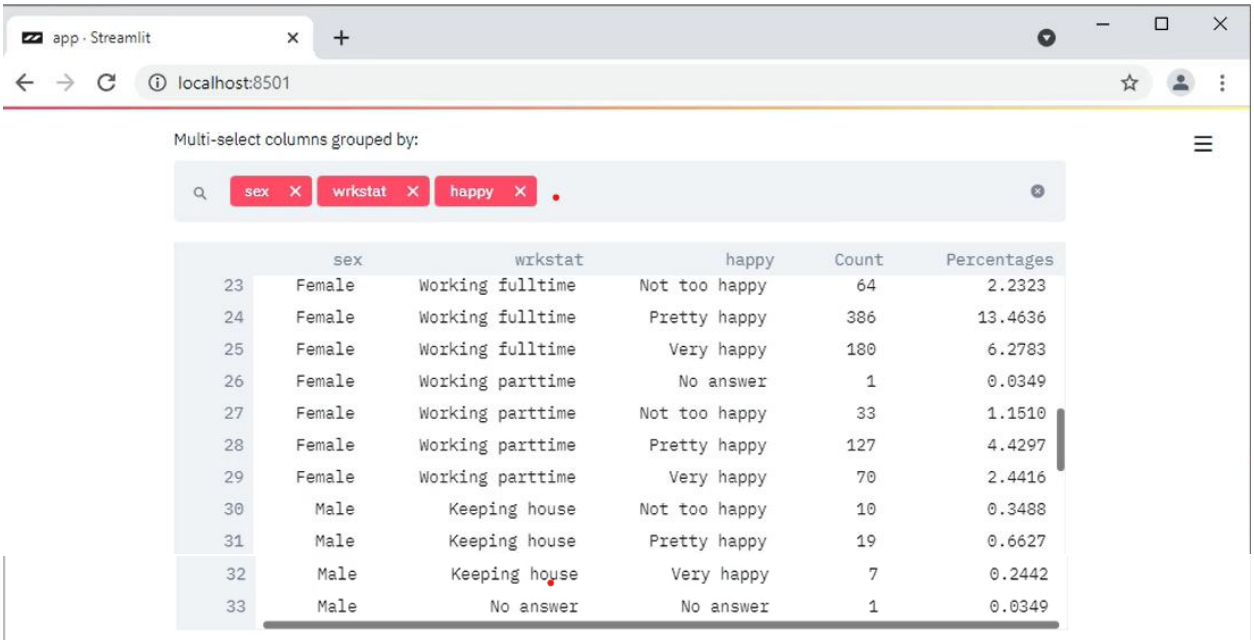
```
multi_select_column2 = st.multiselect("Multi-select columns grouped by:", list(c
olumns), default=["sex"])

multi_select_grouby = gss_data_filtered[multi_select_column2].grouby(multi_selec
t_column2).siz().reset_index(name="Count")

multi_select_groupby["Percentages"] = (multi_select_grouby.Count/multi_select_gr
ouby.Count.sum())*100
```

```
gss_data_filtered = gss_data[["sex","race","age","degree","wrkstat","income","ha
ppy"]]

st.dataframe(gss_data_filtered)

columns = {"sex","race", "age", "degree", "wrkstat", "income", "happy"}

pick_columns = st.selectbox("Count by column: ", list(columns))


gss_data_filtered["Count"] = 0
gss_data_filtered_count = gss_data_filtered.groupby(pick_columns).count()
gss_data_filtered_count = gss_data_filtered_count[["Count"]]
#gss_data_filtered_count.columns = ['Count']
gss_data_filtered_count["Perecentages"] = (gss_data_filtered_count.Count/gss_dat
a_filtered_count.Count.sum()) * 100
```

```
multi_select_column2 = st.multiselect("Multi-select columns grouped by:", list(c
olumns), default=["sex"])

multi_select_grouby = gss_data_filtered[multi_select_column2].grouby(multi_selec
t_column2).siz().reset_index(name="Count")

multi_select_groupby["Percentages"] = (multi_select_grouby.Count/multi_select_gr
ouby.Count.sum())*100
```

```
st.dataframe(multi_select_groupby)

~
```

Exploring Data through Streamlit



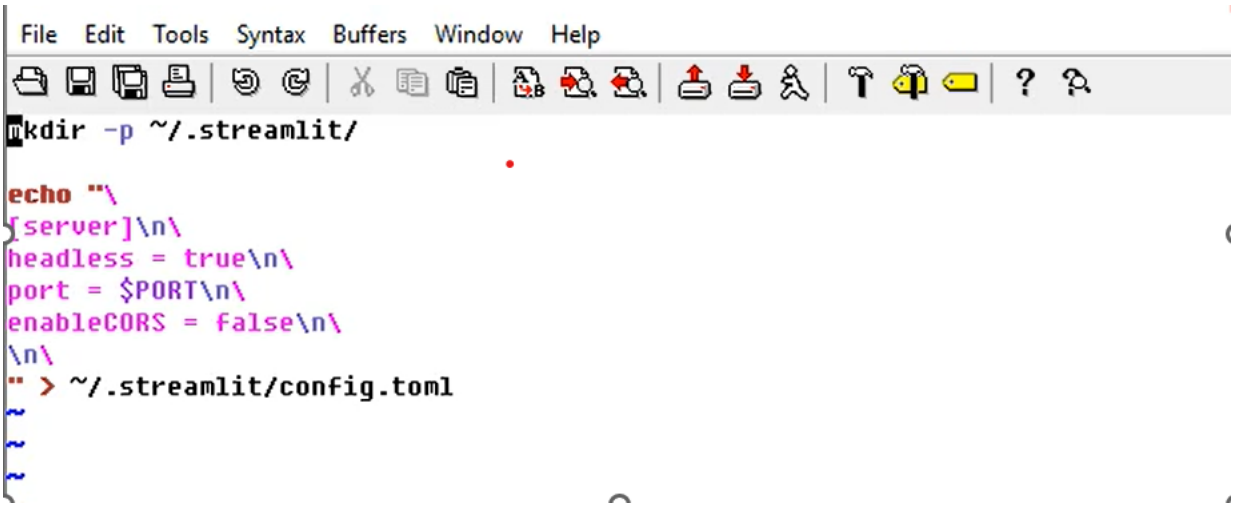
	sex	wrkstat	happy	Count	Percentages
23	Female	Working fulltime	Not too happy	64	2.2323
24	Female	Working fulltime	Pretty happy	386	13.4636
25	Female	Working fulltime	Very happy	180	6.2783
26	Female	Working parttime	No answer	1	0.0349
27	Female	Working parttime	Not too happy	33	1.1510
28	Female	Working parttime	Pretty happy	127	4.4297
29	Female	Working parttime	Very happy	70	2.4416
30	Male	Keeping house	Not too happy	10	0.3488
31	Male	Keeping house	Pretty happy	19	0.6627
32	Male	Keeping house	Very happy	7	0.2442
33	Male	No answer	No answer	1	0.0349

Deploying Web app to Heroku

Procfile

```
web: sh setup.sh && streamlit run ./app.py
```

Setup.sh



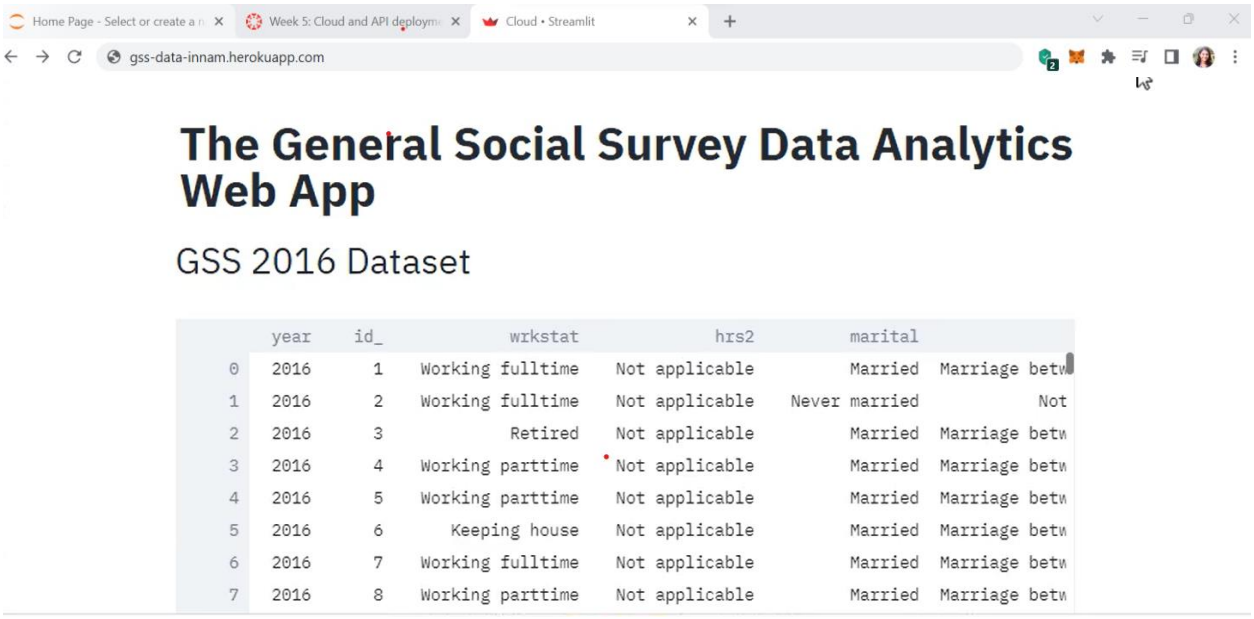

```
$ cd my-project/
$ git init
$ heroku git:remote -a gss-data
```

```
C:\Jupyter\Week 5>git add
```

```
C:\Jupyter\Week 5>git commit -am "pushing web app to Heroku"
```

```
C:\Jupyter\Week 5>git push heroku master
```

```
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/gss-data-innam.git
```



	year	id_	wrkstat	hrs2	marital	
0	2016	1	Working fulltime	Not applicable	Married	Marriage betw
1	2016	2	Working fulltime	Not applicable	Never married	Not
2	2016	3	Retired	Not applicable	Married	Marriage betw
3	2016	4	Working parttime	Not applicable	Married	Marriage betw
4	2016	5	Working parttime	Not applicable	Married	Marriage betw
5	2016	6	Keeping house	Not applicable	Married	Marriage betw
6	2016	7	Working fulltime	Not applicable	Married	Marriage betw
7	2016	8	Working parttime	Not applicable	Married	Marriage betw