

Sentiment Analysis System

WHAT

1. It is a Natural Language Processing Application(It is a field of AI that enables computers to understand, interpret, and generate human language) which can analyse the sentiment on text data.
2. This Application predict the sentiment into 3 categories Positive, Negative and Neutral.
3. This Application then visualize the result based on different different factor such as age,gender,language,city etc.
4. This Application can get data from google form through a google sheet.
5. This Application is a web application which can be access over a LAN(Local Area Network).

WHY

1. This project has many use cases such as product/service monitoring, survey analysis, social media monitoring ,feedback analysis.
2. This project shows my programming skills ,Machine learning Knowledge ,practical implementation of NLP.
3. This kind of project is very good from resume point of view.

HOW

Backend:

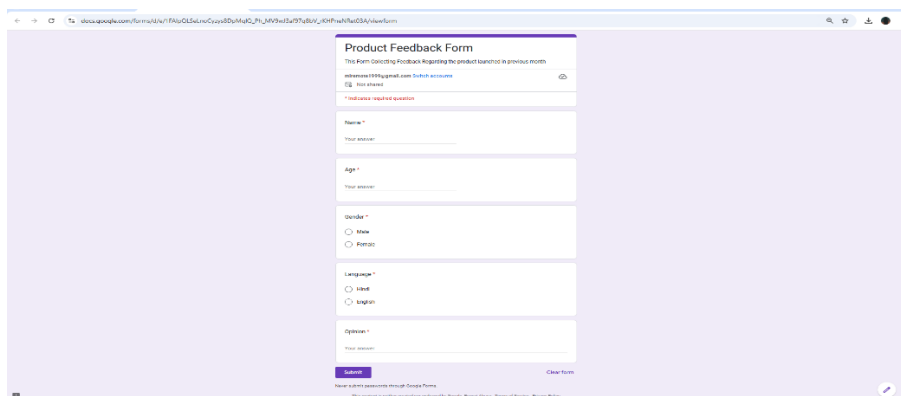
Data Collection	Google Sheets With Python
Data Organization	Pandas
Data Analysis	nlTK,vaderSentiment
Data Visualization	plotly

Frontend : Google Form

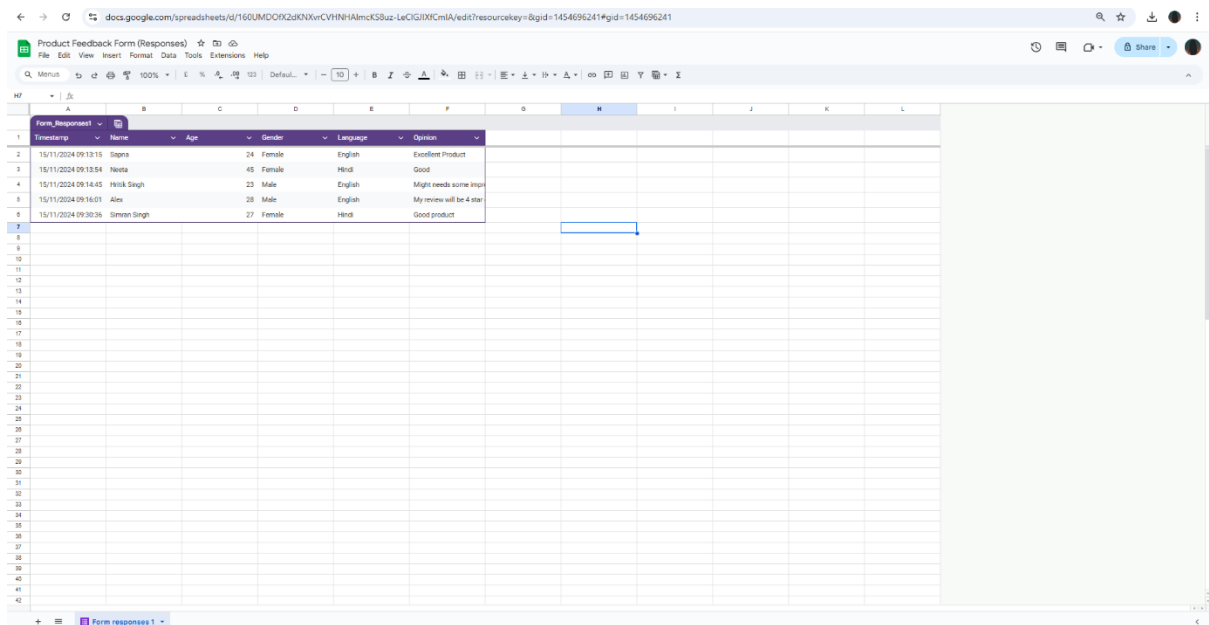
Web Application : Streamlit

Step-1:Creating a Google Form Link this form to Google sheet and get data from sheet to python code.

Create Google form

A screenshot of a Google Form titled "Product Feedback Form". The form is displayed on a light purple background. It includes a header with the title and a description: "This form collecting feedback regarding the product launched in previous month." Below the header, there are several input fields: "Name" (text input), "Age" (text input), "Gender" (radio buttons for "Male" and "Female"), "Language" (radio buttons for "Hindi" and "English"), and "Opinion" (text input). At the bottom of the form, there is a "Submit" button and a "Clear Form" link. The form is linked to a Google Sheet, as indicated by the URL in the browser's address bar.

After link with sheet



The screenshot shows a Google Sheet with the following data:

Timestamp	Name	Age	Gender	Language	Opinion
15/11/2024 09:13:15	Sagna	24	Female	English	Excellent Product
15/11/2024 09:13:54	Naita	45	Female	Hindi	Good
15/11/2024 09:14:45	Harik Singh	23	Male	English	Might needs some improve
15/11/2024 09:16:01	Alex	28	Male	English	My review will be 4 star
15/11/2024 09:30:36	Simran Singh	27	Female	Hindi	Good product

Now, Load the data from Google sheet to Python Code. Here are few Steps:

1. Google Account
2. Google Project
3. Enable Google Sheet API
4. Create a Consent Application
5. Download credentials

Make sentiment folder and create virtual environment and go to script folder and open cmd and install packages:

- `pip install google_auth_oauthlib`
- `pip install google_api_python_client`

Backend.py File

```
from google_auth_oauthlib.flow import InstalledAppFlow
```

```
from googleapiclient.discovery import build
```

```
#Permission
```

```
f=InstalledAppFlow.from_client_secrets_file("key.json",["https://www.googleapis.com/auth/spreadsheets"])
```

```
cred=f.run_local_server(port=0)
```

```
service=build("Sheets","v4",credentials=cred).spreadsheets().values()
```

```
d=service.get(spreadsheetId="160UMDOFvX2dKNXvrCVHNNHAlmckKS8uz-LeClGJIXfCmIA",range="B:F").execute()
```

```
data=d['values']
```

```
print(data)
```

```

C:\Windows\System32\cmd.exe
C:\Microsoft Corporation. All rights reserved.
C:\Projects\Sentiment\Scripts>activate

Sentiment) C:\Projects\Sentiment\Scripts>Backend.py
Please visit this URL to authorize this application: https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=8541399892295-mcdart15ok5ahrss21s0us43gekdb6ju.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A8080%2F&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fspreadsheets&state=j2v9ay8u63vmlvjydc17x1N4W&access_type=offline

[Name, Age, Gender, Language, Opinion], [Sapna, 24, Female, English, 'Excellent Product'], [Neeta, 45, Female, Hindi, 'Good'], [Vedika Singh, 23, Male, English, 'Might needs some improvement'], [Alex, 28, Male, English, 'My review will be 4 star out of 5, due to lagging interface'], [Simran Singh, 27, Female, Hindi, 'Good product']

Sentiment) C:\Projects\Sentiment\Scripts>

```

Organizing a data

Install package :pip install pandas

Backend.py

```
from google_auth_oauthlib.flow import InstalledAppFlow
```

```
from googleapiclient.discovery import build
```

```
import pandas as pd
```

```
#Permission
```

```
f=InstalledAppFlow.from_client_secrets_file("key.json",["https://www.googleapis.com/auth/spreadsheets"])
```

```
cred=f.run_local_server(port=0)
```

```
service=build("Sheets","v4",credentials=cred).spreadsheets().values()
```

```
k=service.get(spreadsheetId="160UMDOFfX2dKNXvrCVHNHAlmcKS8uz-LeClGJIXfCmIA",range="A:F").execute()
```

```
d=k['values']
```

```
df=pd.DataFrame(data=d[1:],columns=d[0])
```

```
print(df)
```

```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.5011]
(c) Microsoft Corporation. All rights reserved.
C:\Projects\Sentiment\Scripts>activate

Sentiment) C:\Projects\Sentiment\Scripts>Backend.py
Please visit this URL to authorize this application: https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=8541399892295-mcdart15ok5ahrss21s0us43gekdb6ju.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A8080%2F&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fspreadsheets&state=j2v9ay8u63vmlvjydc17x1N4W&access_type=offline

TimeStamp      Name Age Gender Language      Opinion
0 15/11/2024 09:13:15      Sapna 24 Female English      Excellent Product
1 15/11/2024 09:13:54      Neeta 45 Female Hindi          Good
2 15/11/2024 09:14:40  Vedika Singh 23 Male English      Might needs some improvement.
3 15/11/2024 09:16:01      Alex 28 Male English      My review will be 4 star out of 5, due to lagging...
4 15/11/2024 09:30:30  Simran Singh 27 Female Hindi          Good product

Sentiment) C:\Projects\Sentiment\Scripts>

```

Fetch only Opinion data

Backend.py

```
from google_auth_oauthlib.flow import InstalledAppFlow
```

```
from googleapiclient.discovery import build
```

```
import pandas as pd
```

```
#Permission
```

```
f=InstalledAppFlow.from_client_secrets_file("key.json",["https://www.googleapis.com/auth/spread  
sheets"])
```

```
cred=f.run_local_server(port=0)
```

```
service=build("Sheets","v4",credentials=cred).spreadsheets().values()
```

```
k=service.get(spreadsheetId="160UMDOFvX2dKNXvrCVHNHAlmcKS8uz-  
LeClGJIXfCmIA",range="A:F").execute()
```

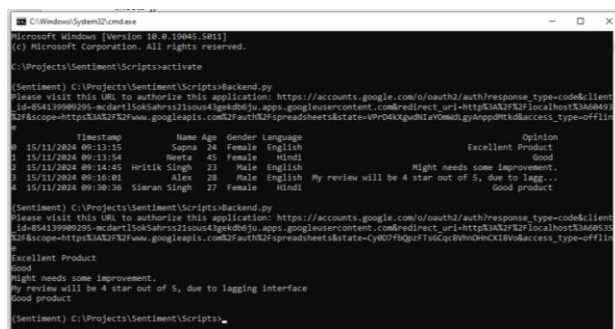
```
d=k['values']
```

```
df=pd.DataFrame(data=d[1:],columns=d[0])
```

```
for i in range(0,len(df)):
```

```
    t=df._get_value(i,"Opinion")
```

```
    print(t)
```



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.5811]
(c) Microsoft Corporation. All rights reserved.

C:\Projects\Sentiment\Scripts>activate

(Sentiment) C:\Projects\Sentiment\Scripts>Backend.py
Please visit this URL to authorize this application: https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=854139889295-mcdart15ok5ahrs21sious43gek08ju.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A6049%3A%2F&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fspreadsheets&state=VPr04KxguHIAvOm6dGyAnppDhtk&access_type=offline
0
Timestamp      Name Age Gender Language      Opinion
0  15/11/2024 09:13:15  Sapna 24 Female English      Excellent Product
1  15/11/2024 09:13:54  Neeta 45 Female Hindi        Good
2  15/11/2024 09:14:45  Hritik Singh 23 Male English      Might needs some improvement.
3  15/11/2024 09:16:00  Alex 28 Male English      My review will be 4 star out of 5, due to lagg...
4  15/11/2024 09:30:38  Simran Singh 27 Female Hindi        Good product

(Sentiment) C:\Projects\Sentiment\Scripts>Backend.py
Please visit this URL to authorize this application: https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=854139889295-mcdart15ok5ahrs21sious43gek08ju.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A6049%3A%2F&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fspreadsheets&state=Cy007Y8qz7YsGqEvhvOmCzIBw&access_type=offline
0
Excellent Product
Good
Might needs some improvement.
My review will be 4 star out of 5, due to lagg interface
Good product

(Sentiment) C:\Projects\Sentiment\Scripts>
```

Data Organizing and Data Visualization

Installing Package:

- pip install nltk
- pip install vaderSentiment

Backend.py file

#To analyze the given text whether it is positive, negative or neutral

```
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer
```

```
k=input("Enter a Text")
```

```
mymodel=SentimentIntensityAnalyzer()
```

```
pred=mymodel.polarity_scores(k)
```

#Printing Dictionary value of prediction

```
print(pred)
```

```
if(pred['compound']>0.5):
```

```
    print("Sentiment is Positive")
```

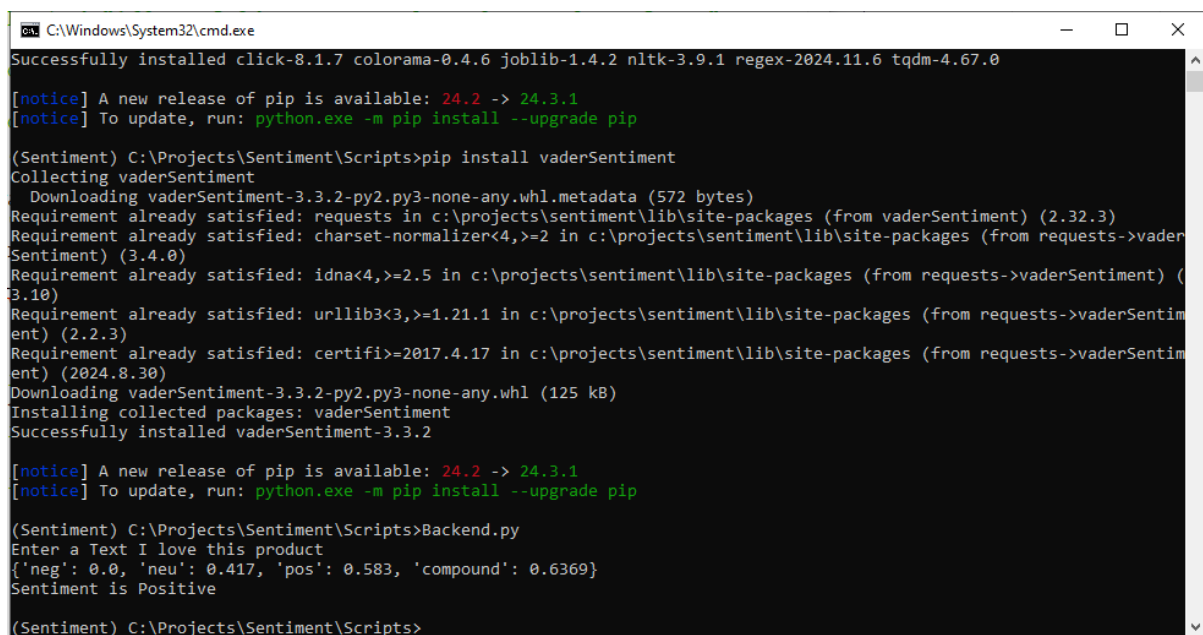
```
elif(pred['compound']<-0.5):
```

```
    print("Sentiment is Negative")
```

```
else:
```

```
    print("Sentiment is Neutral")
```

output:



```
C:\Windows\System32\cmd.exe
Successfully installed click-8.1.7 colorama-0.4.6 joblib-1.4.2 nltk-3.9.1 regex-2024.11.6 tqdm-4.67.0
[notice] A new release of pip is available: 24.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip
(Sentiment) C:\Projects\Sentiment\Scripts>pip install vaderSentiment
Collecting vaderSentiment
  Downloading vaderSentiment-3.3.2-py2.py3-none-any.whl.metadata (572 bytes)
Requirement already satisfied: requests in c:\projects\sentiment\lib\site-packages (from vaderSentiment) (2.32.3)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\projects\sentiment\lib\site-packages (from requests->vaderSentiment) (3.4.0)
Requirement already satisfied: idna<4,>=2.5 in c:\projects\sentiment\lib\site-packages (from requests->vaderSentiment) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\projects\sentiment\lib\site-packages (from requests->vaderSentiment) (2.2.3)
Requirement already satisfied: certifi>=2017.4.17 in c:\projects\sentiment\lib\site-packages (from requests->vaderSentiment) (2024.8.30)
Downloading vaderSentiment-3.3.2-py2.py3-none-any.whl (125 kB)
Installing collected packages: vaderSentiment
Successfully installed vaderSentiment-3.3.2
[notice] A new release of pip is available: 24.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip
(Sentiment) C:\Projects\Sentiment\Scripts>Backend.py
Enter a Text I love this product
{'neg': 0.0, 'neu': 0.417, 'pos': 0.583, 'compound': 0.6369}
Sentiment is Positive
(Sentiment) C:\Projects\Sentiment\Scripts>
```

Doing Sentiment Analyses on sheet data and store it into a device by name of result.csv

```
from google_auth_oauthlib.flow import InstalledAppFlow

from googleapiclient.discovery import build

from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer

import pandas as pd

mymodel=SentimentIntensityAnalyzer()

#Permission

f=InstalledAppFlow.from_client_secrets_file("key.json",["https://www.googleapis.com/auth/spread
sheets"])

cred=f.run_local_server(port=0)

service=build("Sheets","v4",credentials=cred).spreadsheets().values()

k=service.get(spreadsheetId="160UMDOFX2dKNXvrCVHNHAlmcKS8uz-
LeClGJIXfCmIA",range="B:F").execute()

d=k['values']

df=pd.DataFrame(data=d[1:],columns=d[0])

#print(df)

l=[]

for i in range(0,len(df)):

    t=df._get_value(i,"Opinion")

    print(i)

    pred=mymodel.polarity_scores(t)

    if(pred['compound']>0.5):

        l.append("Positive")

    elif(pred['compound']<-0.5):

        l.append("Negative")

    else:

        l.append("Neutral")

df['Sentiment']=l

df.to_csv("result.csv",index=False)

Output:
```

```
C:\Windows\System32\cmd.exe

10
(Sentiment) C:\Projects\Sentiment\Scripts>Backend.py
Please visit this URL to authorize this application: https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=854139909295-mcdart15ok5ahrss21sous43gekdb6ju.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A50854%2F&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fspreadsheets&state=CWCKLE8NALWbi21rEmT3QZJ31gm130&access_type=offline
(Sentiment) C:\Projects\Sentiment\Scripts>
```

view				
s PC > Local Disk (C:) > Projects > Sentiment > Scripts				
Name	Date modified	Type	Size	
activate	15-11-2024 09:36	File	2 KB	
activate	15-11-2024 09:36	Windows Batch File	1 KB	
Activate	15-11-2024 09:36	Windows PowerS...	26 KB	
Backend	18-11-2024 14:05	Python File	1 KB	
deactivate	15-11-2024 09:36	Windows Batch File	1 KB	
f2py	15-11-2024 11:15	Application	106 KB	
google-oauthlib-tool	15-11-2024 10:01	Application	106 KB	
key	15-11-2024 09:33	JSON File	1 KB	
nlTK	18-11-2024 12:39	Application	106 KB	
normalizer	15-11-2024 10:01	Application	106 KB	
numpy-config	15-11-2024 11:15	Application	106 KB	
pip	15-11-2024 09:36	Application	106 KB	
pip3.12	15-11-2024 09:36	Application	106 KB	
pip3	15-11-2024 09:36	Application	106 KB	
pyrsa-decrypt	15-11-2024 10:01	Application	106 KB	
pyrsa-encrypt	15-11-2024 10:01	Application	106 KB	
pyrsa-keygen	15-11-2024 10:01	Application	106 KB	
pyrsa-priv2pub	15-11-2024 10:01	Application	106 KB	
pyrsa-sign	15-11-2024 10:01	Application	106 KB	
pyrsa-verify	15-11-2024 10:01	Application	106 KB	
python	15-11-2024 09:36	Application	264 KB	
pythonw	15-11-2024 09:36	Application	253 KB	
result	18-11-2024 14:06	Microsoft Excel C...	1 KB	
tqdm	18-11-2024 12:39	Application	106 KB	

Data Visualization

Installing Package

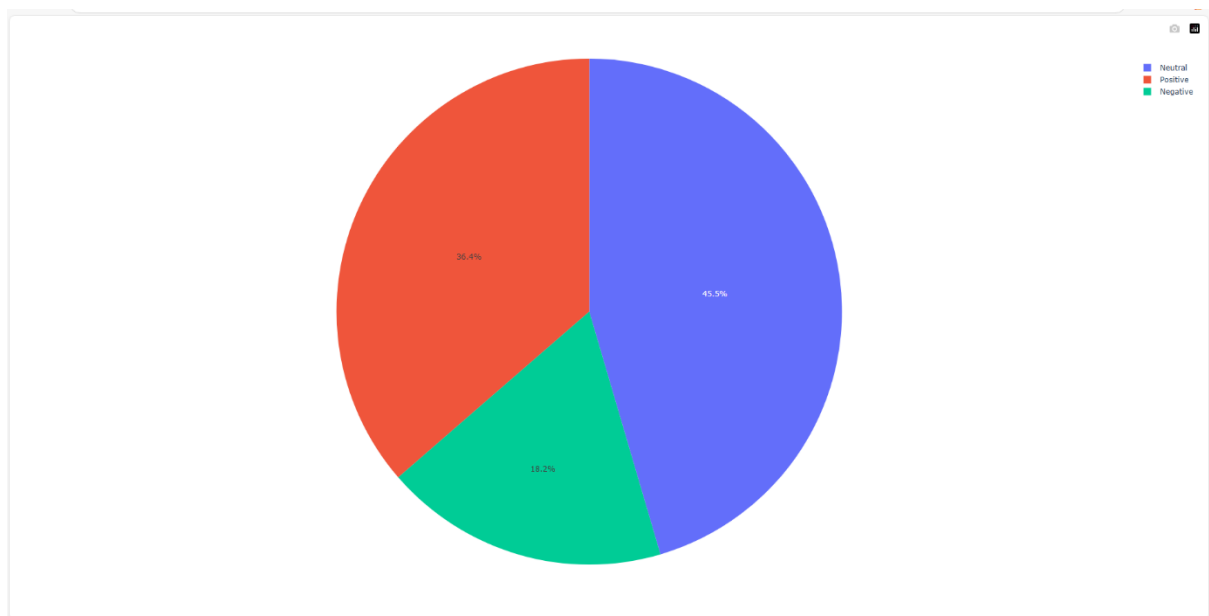
pip install plotly

Backend.py File

```

import pandas as pd
import plotly.express as px
df=pd.read_csv("result.csv")
#Draw a Pie Chart
posper=(len(df[df['Sentiment']=='Positive'])/len(df))*100
negper=(len(df[df['Sentiment']=='Negative'])/len(df))*100
neuper=(len(df[df['Sentiment']=='Neutral'])/len(df))*100
fig=px.pie(values=[posper,negper,neuper],names=['Positive','Negative','Neutral'])
fig.show()
Output Screen-

```

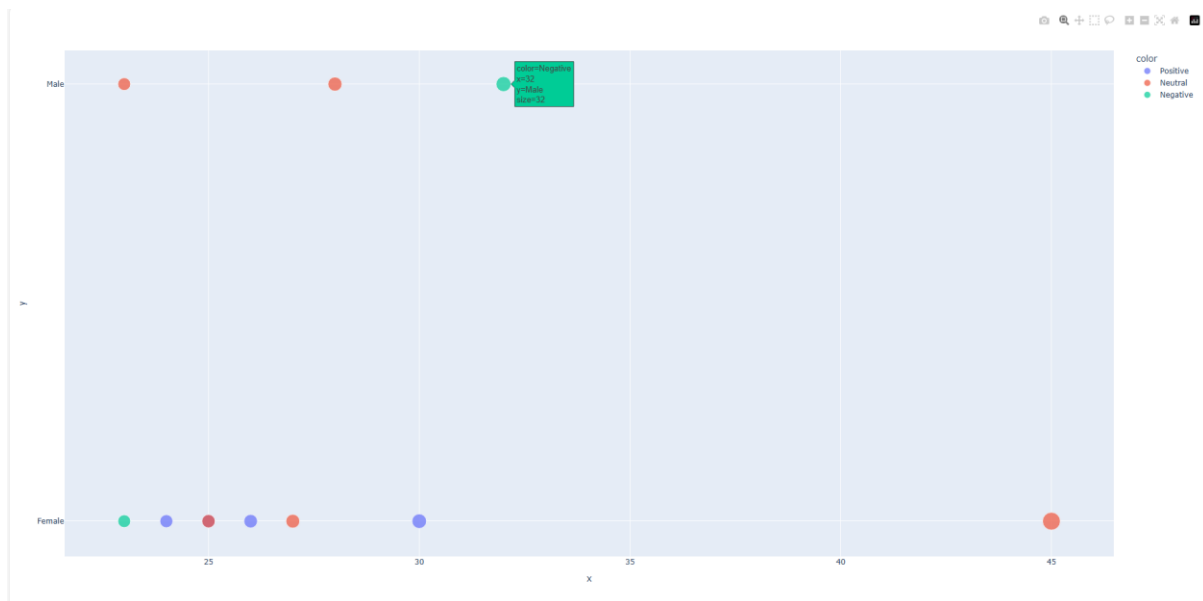


Plot scatter from result.csv file

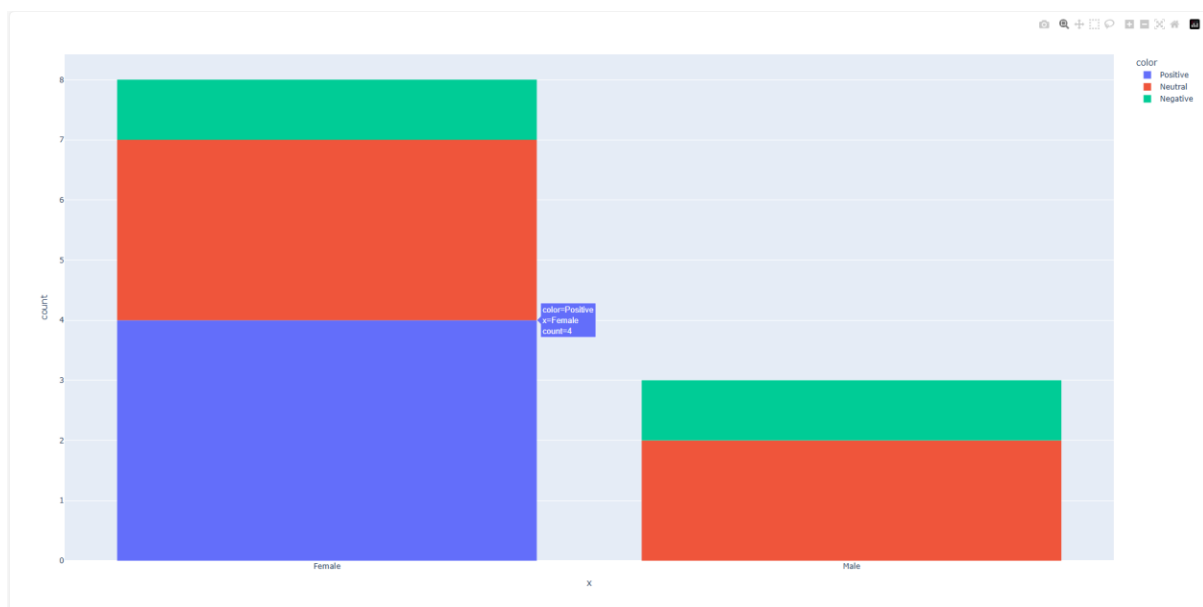
```

import pandas as pd
import plotly.express as px
df=pd.read_csv("result.csv")
#Draw a Scatter Chart
fig=px.scatter(x=df['Age'],y=df['Gender'],color=df['Sentiment'],size=df['Age'])
fig.show()

```

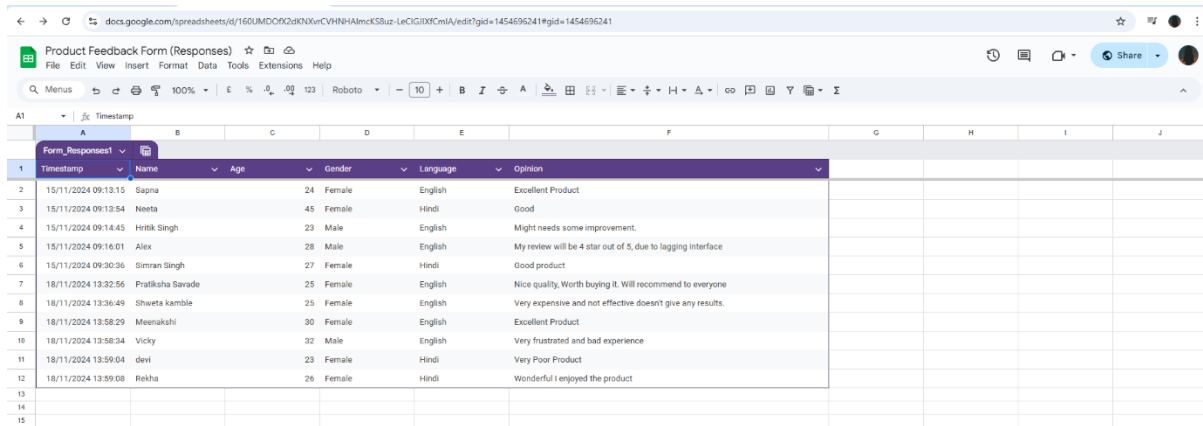
```
import pandas as pd
import plotly.express as px
df=pd.read_csv("result.csv")
#Draw a Histogram
fig=px.histogram(x=df['Gender'],color=df['Sentiment'])
fig.show()
```



Read the Data from Google Sheet and wrote the data on Google sheet

Make sure that your sheet can in editor access mode

Before Screen Of Google sheet



Timestamp	Name	Age	Gender	Language	Opinion
15/11/2024 09:13:15	Sapna	24	Female	English	Excellent Product
15/11/2024 09:13:54	Neeta	45	Female	Hindi	Good
15/11/2024 09:14:45	Hetik Singh	23	Male	English	Might needs some improvement.
15/11/2024 09:16:01	Alex	28	Male	English	My review will be 4 star out of 5, due to lagging interface
15/11/2024 09:30:36	Simran Singh	27	Female	Hindi	Good product
18/11/2024 13:32:56	Pratiksha Savade	25	Female	English	Nice quality, Worth buying it. Will recommend to everyone
18/11/2024 13:36:49	Shweta kamble	25	Female	English	Very expensive and not effective doesn't give any results.
18/11/2024 13:58:29	Meenakshi	30	Female	English	Excellent Product
18/11/2024 13:58:04	Vicky	32	Male	English	Very frustrated and bad experience
18/11/2024 13:59:04	devi	23	Female	Hindi	Very Poor Product
18/11/2024 13:59:08	Rekha	26	Female	Hindi	Wonderful I enjoyed the product

Backend.py File

```
from google_auth_oauthlib.flow import InstalledAppFlow
```

```
from googleapiclient.discovery import build
```

```
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer
```

```
import pandas as pd
```

```
mymodel=SentimentIntensityAnalyzer()
```

```
#Permission
```

```
f=InstalledAppFlow.from_client_secrets_file("key.json",["https://www.googleapis.com/auth/spreadsheets"])
```

```
cred=f.run_local_server(port=0)
```

```
service=build("Sheets","v4",credentials=cred).spreadsheets().values()
```

```
k=service.get(spreadsheetId="160UMDOF0X2dKNXvrCVHNNHAlmcKS8uz-LeClGJIXfCmlA",range="B:F").execute()
```

```
d=k['values']
```

```
df=pd.DataFrame(data=d[1:],columns=d[0])
```

```
#print(df)
```

```
l=[]
```

```
for i in range(0,len(df)):
```

```
    t=df._get_value(i,"Opinion")
```

```
    pred=mymodel.polarity_scores(t)
```

```
    if(pred['compound']>0.5):
```

```

        d[i+1].append("Positive")

    elif(pred['compound']<-0.5):

        d[i+1].append("Negative")

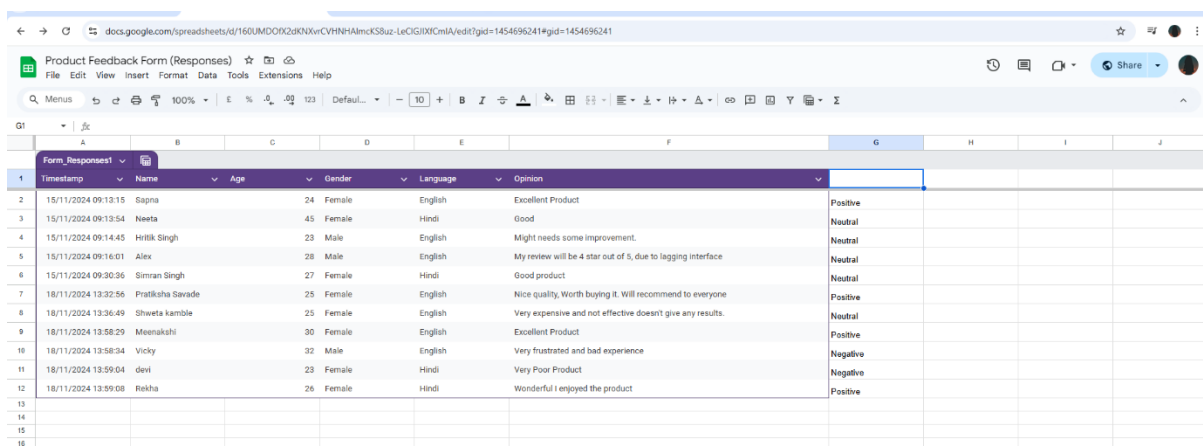
    else:

        d[i+1].append("Neutral")

h={'values':d}

k=service.update(spreadsheetId="160UMDOF2dKNXvrCVHNHAlmckS8uz-
LeClGIXfCmlA",range="B:G",valueInputOption="USER_ENTERED",body=h).execute()

```



The screenshot shows a Google Sheet titled "Product Feedback Form (Responses)". The sheet contains a table with the following data:

Form_Response1	Timestamp	Name	Age	Gender	Language	Opinion	
2	15/11/2024 09:13:15	Sapna	24	Female	English	Excellent Product	Positive
3	15/11/2024 09:13:54	Neeta	45	Female	Hindi	Good	Neutral
4	15/11/2024 09:14:45	Hirik Singh	23	Male	English	Might needs some improvement.	Neutral
5	15/11/2024 09:16:01	Alex	28	Male	English	My review will be 4 star out of 5, due to lagging interface	Neutral
6	15/11/2024 09:30:36	Simran Singh	27	Female	Hindi	Good product	Neutral
7	18/11/2024 13:32:56	Pratiksha Savade	25	Female	English	Nice quality. Worth buying it. Will recommend to everyone	Positive
8	18/11/2024 13:36:49	Shweta kamble	25	Female	English	Very expensive and not effective doesn't give any results.	Neutral
9	18/11/2024 13:58:29	Meenakshi	30	Female	English	Excellent Product	Positive
10	18/11/2024 13:58:34	Vicky	32	Male	English	Very frustrated and bad experience	Negative
11	18/11/2024 13:59:04	devi	23	Female	Hindi	Very Poor Product	Negative
12	18/11/2024 13:59:08	Rikha	26	Female	Hindi	Wonderful I enjoyed the product	Positive

Frontend

Main.py File

```

import streamlit as st

from google_auth_oauthlib.flow import InstalledAppFlow
from googleapiclient.discovery import build
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer

import pandas as pd

import plotly.express as px

st.set_page_config(page_title="Sentiment Analysis System",page_icon="https://encrypted-
tbn0.gstatic.com/images?q=tbn:AND9GcQFbvzaEfqpPd55moVz6zwLzUViHxuDrZuOynQ&s")

st.title("SENTIMENT ANALYSIS SYSTEM")

choice=st.sidebar.selectbox("MY HOME",("HOME","ANALYSIS","RESULTS"))

if(choice=="HOME"):

    st.image("https://miro.medium.com/v2/1*_JW1JaMpK_fVGld8pd1_JQ.gif")

```

```
st.write("1.It is a Natural Language Processing Application(It is a field of AI that enables computers to understand, interpret, and generate human language) which can analyse the sentiment on text data")
```

```
st.write("2.This Application predict the sentiment into 3 categories Positive, Negative and Neutral.")
```

```
st.write("3.This Application then visualize the result based on different different factor such as age,gender,language,city etc.")
```

```
elif(choice=="ANALYSIS"):
```

```
sid=st.text_input("Enter your Google Sheet ID")
```

```
r=st.text_input("Enter Range Between first column and last columns")
```

```
c=st.text_input("Enter column name that is to be analyzed")
```

```
btn=st.button("Analyze")
```

```
if btn:
```

```
    if 'cred' not in st.session_state:
```

```
f=InstalledAppFlow.from_client_secrets_file("key.json",["https://www.googleapis.com/auth/spreadsheets"])
```

```
    st.session_state['cred']=f.run_local_server(port=0)
```

```
    mymodel=SentimentIntensityAnalyzer()
```

```
    service=build("Sheets","v4",credentials=st.session_state['cred']).spreadsheets().values()
```

```
    k=service.get(spreadsheetId=sid,range=r).execute()
```

```
    d=k['values']
```

```
    df=pd.DataFrame(data=d[1:],columns=d[0])
```

```
    l=[]
```

```
    for i in range(0,len(df)):
```

```
        t=df._get_value(i,c)
```

```
        pred=mymodel.polarity_scores(t)
```

```
        if(pred['compound']>0.5):
```

```
            l.append("Positive")
```

```
        elif(pred['compound']<-0.5):
```

```
            l.append("Negative")
```

```
        else:
```

```
            l.append("Neutral")
```

```

df['Sentiment']=1
df.to_csv("result.csv",index=False)

st.success("The Anaysis Result Are Saved By The Name Of A result.csv File Successfully")

elif(choice=="RESULTS"):
    df=pd.read_csv("result.csv")

    choice2=st.selectbox("Choose Visualization",("NONE","PIE CHART","HISTOGRAM","SCATTER
PLOT"))

    st.dataframe(df)

    if(choice2=="PIE CHART"):
        posper=(len(df[df['Sentiment']=='Positive'])/len(df))*100
        negper=(len(df[df['Sentiment']=='Negative'])/len(df))*100
        neuper=(len(df[df['Sentiment']=='Neutral'])/len(df))*100

        fig=px.pie(values=[posper,negper,neuper],names=['Positive','Negative','Neutral'])

        st.plotly_chart(fig)

    elif(choice2=="HISTOGRAM"):
        k=st.selectbox("Choose Column",df.columns)

        if k:
            fig=px.histogram(x=df[k],color=df['Sentiment'])

            st.plotly_chart(fig)

    elif(choice2=="SCATTER PLOT"):
        k=st.text_input("Enter the Continous column name")

        if k:
            fig=px.scatter(x=df[k],y=df['Sentiment'])

            st.plotly_chart(fig)

```

```
C:\Windows\System32\cmd.exe - streamlit run Main.py
Using cached gitdb-4.0.11-py3-none-any.whl (62 kB)
Using cached Jinja2-3.1.4-py3-none-any.whl (133 kB)
Using cached jsonschema-4.23.0-py3-none-any.whl (88 kB)
Using cached markdown_it_py-3.0.0-py3-none-any.whl (87 kB)
Downloading narwhals-1.14.0-py3-none-any.whl (213 kB)
Using cached pygments-2.18.0-py3-none-any.whl (1.2 MB)
Using cached attrs-24.2.0-py3-none-any.whl (63 kB)
Using cached jsonschema_specifications-2024.10.1-py3-none-any.whl (18 kB)
Using cached MarkupSafe-3.0.2-cp312-cp312-win_amd64.whl (15 kB)
Using cached mdurl-0.1.2-py3-none-any.whl (10.0 kB)
Using cached referencing-0.35.1-py3-none-any.whl (26 kB)
Using cached rpds_py-0.21.0-cp312-none-win_amd64.whl (220 kB)
Using cached smmap-5.0.1-py3-none-any.whl (24 kB)
Installing collected packages: watchdog, typing-extensions, tornado, toml, smmap, rpds-py, pygments, pyarrow, pillow, na
rwhals, mdurl, MarkupSafe, blinker, attrs, referencing, markdown-it-py, Jinja2, gitdb, rich, pydeck, jsonschema-specific
ations, gitpython, jsonschema, altair, streamlit
Successfully installed MarkupSafe-3.0.2 altair-5.4.1 attrs-24.2.0 blinker-1.9.0 gitdb-4.0.11 gitpython-3.1.43 Jinja2-3.1
.4 jsonschema-4.23.0 jsonschema-specifications-2024.10.1 markdown-it-py-3.0.0 mdurl-0.1.2 narwhals-1.14.0 pillow-11.0.0
pyarrow-18.0.0 pydeck-0.9.1 pygments-2.18.0 referencing-0.35.1 rich-13.9.4 rpds-py-0.21.0 smmap-5.0.1 streamlit-1.40.1 t
oml-0.10.2 tornado-6.4.1 typing-extensions-4.12.2 watchdog-6.0.0

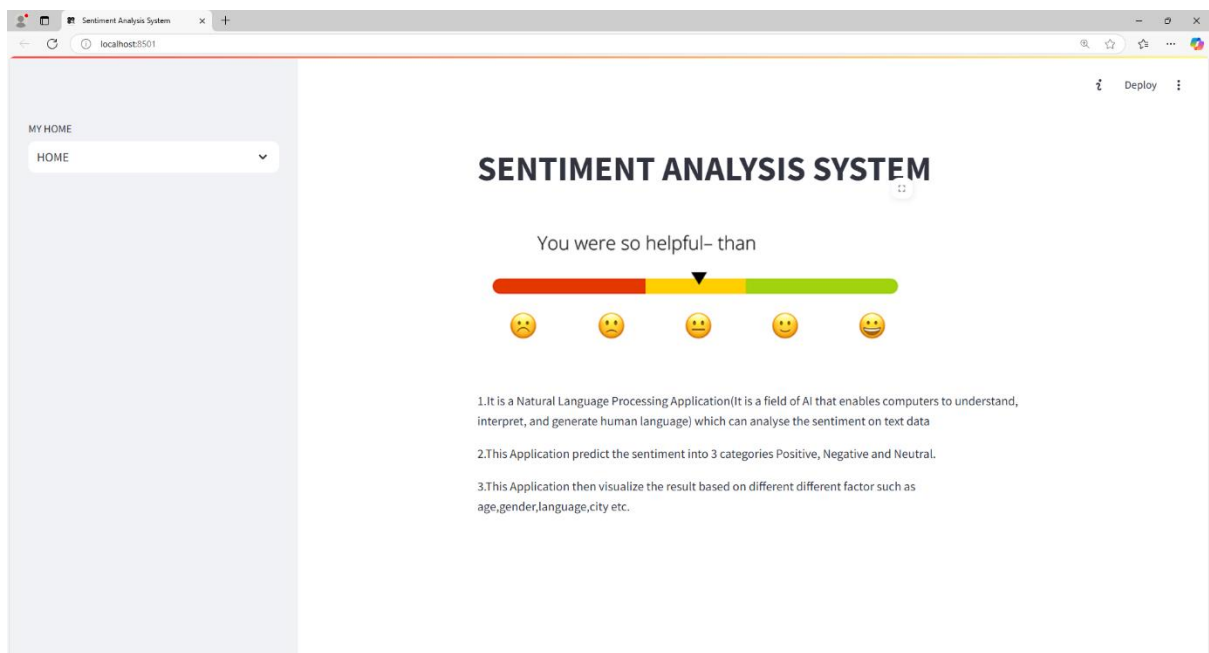
[notice] A new release of pip is available: 24.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(Sentiment) C:\Projects\Sentiment\Scripts>streamlit run Main.py

You can now view your Streamlit app in your browser.

Local URL: http://localhost:8501
Network URL: http://192.168.0.158:8501
```

Output Screen



MY HOME

ANALYSIS

Deploy

SENTIMENT ANALYSIS SYSTEM

Enter your Google Sheet ID

160UMDOFX2dKNXvrCVHNNHAlmcKS8uz-LeCIGJIXfCmIA

Enter Range Between first column and last columns

B:F

Enter column name that is to be analyzed

Opinion

Press Enter to apply

Analyze

MY HOME

ANALYSIS

Deploy

SENTIMENT ANALYSIS SYSTEM

Enter your Google Sheet ID

160UMDOFX2dKNXvrCVHNNHAlmcKS8uz-LeCIGJIXfCmIA

Enter Range Between first column and last columns

B:F

Enter column name that is to be analyzed

Opinion

Analyze

The Analysis Result Are Saved By The Name Of A result.csv File Successfully

