We've uploaded 3 notebooks: -

1- **ChatBot**

- This notebook contains our ChatBot implementation code and also, it's contains the code that connect our ChatBot to Google DialogFlow.

2- **Classification and Clustering Emotions**

- This notebook contains the implementation code of our classification and clustering models to classify and clustering the emotions.

3- **Songs**

- This notebook contains the implementation code of our classification to classify the emotions of each song lyrics.

And two different datasets: -

1- **Song.csv**

- It's the dataset that contains the songs name and the song lyrics.

2- **EmoSongs_Detected.csv**

- The Sentiment score for each song lyrics.

And for classification we have upload the model that we've trained before, to combine it with our ChatBot.

1- Logistic_Regression.sav

And for the **vector.pickel** file it is the saved result the we've obtained from the count vectorizer when we did preprocessing on the data the we've trained our classification models.

Please make sure to upload the provided dataset to the notebook.

Please make sure that you have installed these libraries before importing it ->

from inspect import Parameter
from itertools import count
from typing import Any, Dict
from fastapi import Body,FastAPI ,Request
from matplotlib.pyplot import text
from pydantic import BaseModel
import pandas as pd
import pickle
import pandas as pd, numpy as np, re
import time
import json
import pickle
import random
pyngrok
unicorn

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we've provided the installation lines required in the notebooks ->

List of required libraries to connect with DialogFlow:

!pip install pyngrok
!pip install pydentic
!pip install fastapi nest-asyncio pyngrok uvicorn