

✓ Labeling the Data

Manual Annotation

This document outlines the process of categorizing data into positive, negative, and neutral classes based on emotions. The primary goal is to assign labels to raw tweet data from Twitter, referred to as "X," with its credibility verified on Kaggle. In this manual labeling effort, a total of 1070 data points were individually categorized. The process involves downloading essential libraries in Colab, uploading the dataset and necessary libraries, breaking down a large group of tweets into smaller chunks of 50 data points at a time for easier management, and annotating each tweet based on emotion. Once the annotation is complete, all CSV files are downloadable and can be consolidated into a unified labeled dataset, ready for further analysis or applications.

✓ Importing Necessary libraries

```
import nltk
from textblob import TextBlob
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer
import sklearn
import tensorflow as tf
import torch
import scipy
import skfuzzy
import xgboost
import lightgbm
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.express as px
import csv
import re
```

```
tweet = []
with open('/content/drive/MyDrive/training.1600000.processed.noemoticon.csv', 'r', encoding='utf-8', errors='ignore') as file:
    csv_reader = csv.reader(file)
    for row in csv_reader:
        tweet.append(row)

tw = pd.DataFrame(tweet)

tw = tw.sample(n=20000, random_state=42)

print("Sample size:", len(tw))

Sample size: 20000

tw.head()
```

	0	1	2	3	4	5
541200	0	2200003196	Tue Jun 16 18:18:12 PDT 2009	NO_QUERY	LaLaLindsey0609	@chrishasboobs AHHH I HOPE YOUR OK!!!
750	0	1467998485	Mon Apr 06 23:11:14 PDT 2009	NO_QUERY	sexygrneyes	@misstoriblack cool , i have no tweet apps fo...
766711	0	23000048954	Tue Jun 23 13:40:11	NO_QUERY	sammudearr	@TiannaChaos i know just family drama its

```
tw.columns

RangeIndex(start=0, stop=6, step=1)

## keeping only necessary cols
tw = tw[[0, 2, 5]]

tw.head()
```

	0	2	5
541200	0	Tue Jun 16 18:18:12 PDT 2009	@chrishasboobs AHHH I HOPE YOUR OK!!!
750	0	Mon Apr 06 23:11:14 PDT 2009	@misstoriblack cool , i have no tweet apps fo...
766711	0	Tue Jun 23 13:40:11 PDT 2009	@TiannaChaos i know just family drama. its la...
285055	0	Mon Jun 01 10:26:07 PDT 2009	School email won't open and I have geography ...

✓ removing confidentiality from the text

```
def remove_mentions(text):
    return re.sub(r'@\w+', '', text)

tw.loc[:, 5] = tw.loc[:, 5].apply(remove_mentions)

print(tw.head())
```

	0	2	5
0	0	Mon Apr 06 22:19:45 PDT 2009	http://twitpic.com/2y1zl - Awww, that's a bum...
1	0	Mon Apr 06 22:19:49 PDT 2009	is upset that he can't update his Facebook by ...
2	0	Mon Apr 06 22:19:53 PDT 2009	I dived many times for the ball. Managed to s...
3	0	Mon Apr 06 22:19:57 PDT 2009	my whole body feels itchy and like its on fire
4	0	Mon Apr 06 22:19:57 PDT 2009	no, it's not behaving at all. i'm mad. why am...

```
tw.head()
```

	0	2	5
541200	0	Tue Jun 16 18:18:12 PDT 2009	AHHH I HOPE YOUR OK!!!
750	0	Mon Apr 06 23:11:14 PDT 2009	cool , i have no tweet apps for my razr 2
766711	0	Tue Jun 23 13:40:11 PDT 2009	i know just family drama. its lame.hey next ...
285055	0	Mon Jun 01 10:26:07 PDT 2009	School email won't open and I have geography ...
705995	0	Sat Jun 20 12:56:51 PDT 2009	upper airways problem

✓ replacing the cols name

```
tw = tw.rename(columns={0: 'sentiment', 2: 'timestamp', 5: 'tweet_text'})
tw.head()
```

	sentiment	timestamp	tweet_text
0	0	Mon Apr 06 22:19:45 PDT 2009	http://twitpic.com/2y1zl - Awww, that's a bum...
1	0	Mon Apr 06 22:19:49 PDT 2009	is upset that he can't update his Facebook by ...
2	0	Mon Apr 06 22:19:53 PDT 2009	I dived many times for the ball. Managed to s...
3	0	Mon Apr 06 22:19:57 PDT 2009	my whole body feels itchy and like its on fire
4	0	Mon Apr 06 22:19:57 PDT 2009	no, it's not behaving at all. i'm mad. why am...

✓ Manually annotate sentiment

```
tw.columns
```

```
Index(['sentiment', 'timestamp', 'tweet_text'], dtype='object')
```

```
chunk_size = 50
last_annotated_index = 0
```

```
# Annotation function
def manual_annotation(tweet):
    print("Tweet Text: ", tweet)
    sentiment = input("Enter sentiment (positive, negative, neutral): ")
    return sentiment.strip().lower()
```

```

# Annotate the first chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'annotated_dataset_chunk_{start_index}-{end_index}.csv', index=False)

print("Annotation process for the first chunk completed!")

Tweet Text:  AHHH I HOPE YOUR OK!!!
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  cool , i have no tweet apps for my razr 2
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  i know just family drama. its lame.hey next time u hang out with kim n u guys like have a sleepover or wh
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  School email won't open and I have geography stuff on there to revise! *Stupid School* :'(
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  upper airways problem
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  Going to miss Pastor's sermon on Faith...
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  on lunch....dj should come eat with me
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  oh why are you feeling like that?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  gahh noo!peyton needs to live!this is horrible
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  thank you glad you like it! There is a product review bit on the site Enjoy knitting it!
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  Zach makes me pee sitting down! And I'm a grown gay man!
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  to sum up my day in one word ..... kackered!
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  Great minds think alike
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  Is Poorly and in bed!
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  Oh, that's really great Here we have a small blizzard and also cold wind blows...
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  lol, calm down. i got a 30day loan offer for only 1500%
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  i'm feeling quite sleepy today, wish i could stay in bed today...but OK! is my LAST YEAR, so let's go to sc
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  Yeah Mathieu totally choked in the 3rd set to let Rog win as well. Djokovic played TERRIBLY.
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  ugh, morning's off to a rough start
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  just bit my tongue
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  Apparently you dont have time for ur fans!!!!!!!!!!!!
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  Whaddup Whaddup Whaddup Whaddup Whaddup I Got white girl swag from MY HEAD TO MY shOES Whaddup
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  I'd be willing to pay $40-50 (thus covering the cost of the set) for one of them, but if you've got a coun
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  Working on photos from Hillsong's 1 year celebration!!! stay tuned www.hillsong.co.za
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  baby's chicken pox are soo bad on the face, I am afraid she might have scars
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  i don't feel good
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  ha ha I want to see pictures from when you were a minister!!! *boobie flahses*!!!!
Enter sentiment (positive, negative, neutral):
Tweet Text:  This day will pass slowly. All of these days will. RAWR!!!! ...
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  my car is poorly
Enter sentiment (positive, negative, neutral): neutral

```

```

chunk.to_csv('annotated_dataset_chunk_0-50.csv', index=False)
from google.colab import files

## downloading the file
files.download('annotated_dataset_chunk_0-50.csv')

```

```

last_annotated_index = end_index

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)

chunk.to_csv('chunk_2.csv', index=False)

print("Annotation process for chunk 2 completed!")

Enter sentiment (positive, negative, neutral): negative
Tweet Text: Fine. Kinders coughing again, so not a lot of sleep. Weather's good, though, that's the main thing
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Listening to the Nutcracker. Who says it's only a Christmas thing?!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i miss him, i cant wait to see him, im happy
Enter sentiment (positive, negative, neutral): positive
Tweet Text: are you missing me? i'm missing my tuesday nights of 90210
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: mourniiiiiiing eh, morniiiiing!!!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Glad the blog helped
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Awesome pumpkin! Your famous
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Sadly , I've never seen a single episode. I know , I'm fired , right?
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Haha. I will! o.o Hows you? Long time no @ reply.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: awww, Good luck Paula!! Please don't work too hard but I hope you have fun Your new album is gonna be am
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Seattle PRIDE will be June 28th at 11am. Come out and support your community! March with the marriage equa
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: seriously, the second one "since I'm already a mid. class dude and would work for food"
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: at school...listening to die Ärzte - Westerland...great song really..btw i'm so tired...i slept between 0
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I am so hungry I hate not eating breakfast!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: ewww if i work at fazoli's i have to wear a visor...and ugly shoes...and a pony tail...and no nail polish
Enter sentiment (positive, negative, neutral): negative
Tweet Text: NO. IT'S FULL OF WIN AND I LUV IT. &#3 I've been meaning to catch up to where it's at now for ages. NOW
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Oft. As finished as I can be. Can I relax and be on holiday now? I think I've missed the acceptable slot fo
Enter sentiment (positive, negative, neutral): negative
Tweet Text: 100%.. its like getting an A for all your classes..
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Hi Seb! I'm a spanish fan of you.I'm addicted to SP and I think it's the best band in the world!please, co
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Home from soccer. It's so hot out there today. We have retreated to the coolness of the basement.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: i have find my someone
Enter sentiment (positive, negative, neutral): positive
Tweet Text: We are the "Fugazi Patrol" & our motto is "If u see a clown point em out" please l
Enter sentiment (positive, negative, neutral): positive
Tweet Text: it is ginormous... Haha well i feel wierd talking about my ziiiit ta ta good nightt
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I'm obsessed with twitting haha
Enter sentiment (positive, negative, neutral): positive
Tweet Text: One interlock down one to go
Enter sentiment (positive, negative, neutral): positive
Tweet Text: ugh...summer colds are the worst, esp when you have a fever on top of this ridic humidity
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I miss Zack so much these days
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I'm using an Asus. Forget which one at the moment since I don't have it near me.But my complaints are simi
Enter sentiment (positive, negative, neutral): neutral
Annotation process for chunk 2 completed!

```

```

files.download('chunk_2.csv')

```

```

last_annotated_index = end_index

# Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)

chunk.to_csv('chunk_3.csv', index=False)

print("Annotation process for chunk 3 completed!")

```

```

Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I know! I don't think they air it on any of the cable channels anymore, but you can download them from the
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: you will ! check the website so you can have an idea as to what product u want to try . I will sent u t
Enter sentiment (positive, negative, neutral): positive
Tweet Text: can it be fixed? can we make a new simple one mayb?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: blää i have a headache
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Has just joined Twitter.. It better be good!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Where in Singapore do they sell Dujour?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: #iranelection The &quot;yellow Press&quot; is alive and well in the 21st century, how quickly we forget the
Enter sentiment (positive, negative, neutral): negative
Tweet Text: haven't been on all day went to bed late last night!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: where's all the rain we were supposed to have today? not complaining tho, it's lovely &amp; bright. very ha
Enter sentiment (positive, negative, neutral): positive
Tweet Text: thank you, it only took me two minutes, thankfully the style of envirowise.gov.uk was already there for th
Enter sentiment (positive, negative, neutral): positive
Tweet Text: ps: i think twitter sucks if you dont have free unlimited texts.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Ha! THAT SOUNDS SO WRONG STACY! lmao i love you. and when I take one, I'll think of you too. haha, and on
Enter sentiment (positive, negative, neutral): positive
Tweet Text: no no really its ok! u try em out and then u can see which works and doesnt by that time its to late
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Who else misses Parade the day incredibly much..
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I was caller number one.
Enter sentiment (positive, negative, neutral): positive
Tweet Text: ditto!! Goodnight &amp; rest well!! Go play the lottery! I bought a ticket when I was n FL last week but n
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Mornin every! Hope all is well I'm your worlds. I'm not sure why I'm at work at 7:45 this mornin, but I gu
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: should be going out but wants to stay put to participate in experiment - might have to do it by txt. (no p
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: If you can take criticism and blame without resentment, YOU'RE PROBABLY THE FAMILY DOG see... http://jjr.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Sorry, I know I'm late responding (15hrs timezone troubles) but I think you would need to load Audacity t
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: History exam today and dreading it
Enter sentiment (positive, negative, neutral): negative
Tweet Text: After seeing mr. benningfield tonight it really made me start to miss my vand family like hXc i love you b
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Just downloaded a new Twitter app for my phone. So much better already.
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I seem to be making a habbit out of not falling asleep until very late
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: There was a steady stream at my polling station mostly old folks surely they wouldn't vote for the fascists
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Missionaries had passport problems. Still havn't arrived ya'll pray!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: had a very good night
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Enjoying the morning just hanging out with Juliet in Victoria. She doesn't know it yet, but I'm taking her
Enter sentiment (positive, negative, neutral): positive
Annotation process for chunk 3 completed!

```

```
files.download('chunk_3.csv')
```

```
chunk_size = 50
```

```
last_annotated_index = 150
```

```
## Annotating the next chunk of tweets
```

```
start_index = last_annotated_index
```

```
end_index = min(start_index + chunk_size, len(tw))
```

```
chunk = tw.iloc[start_index:end_index].copy()
```

```
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
```

```
chunk.to_csv(f'chunk_4.csv', index=False)
```

```
print("Annotation process for chunk 4 completed!")
```

```

Enter sentiment (positive, negative, neutral): positive
Tweet Text: I'll be sure to vote for you in that competition. A star with your name on it would go well with your Ido
Enter sentiment (positive, negative, neutral): positive
Tweet Text: already miss baby donkey
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I have it on good authority that we'll be getting it around 3am.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Just heard gun shots in my neighborhood!!!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Just watched hellla home movies with my aunt and uncle. I miss the days where our whole family got along
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I am sooo tired!! My eyes literally can't stay open
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I hate word challenge on facebook!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: is sad she couldn't go out with her girls tonight It's been too long....
Enter sentiment (positive, negative, neutral): negative
Tweet Text: PACKING SUCKS! i miss my Lee
Enter sentiment (positive, negative, neutral): negative
Tweet Text: O how i love you sammoons o how i do.
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Wants a free doughnut, Krispy Kremes are so expensive, but 10 million times better than other doughnuts.
Enter sentiment (positive, negative, neutral): positive
Tweet Text: new phone tattoo on monday! Woo.. just had tea. yummy.
Enter sentiment (positive, negative, neutral): positive
Tweet Text: waiting for my hoe to come back
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i just cried a lot im so over that all , and i cant hear it anymore...
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Trying to get on facebook!!!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I want to post lol cats on here but I can't
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I have no comment about who won the game until this replay is completed.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Thank you everyone. I seriously am I lucky guy to have such great and lovely friends. Let's keep in touch
Enter sentiment (positive, negative, neutral): positive
Tweet Text: friday gimmick in the office but always looking forward for the weekend!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: TALK meeting tonight at Tampa Chamber at 6pm with as guest speaker on Word of Mouth Marketing! Happy Hour
Enter sentiment (positive, negative, neutral): positive
Tweet Text: successfully obtained visa entries to enter and stay in the Royal Kingdom of Thailand!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Downtown Disney
Enter sentiment (positive, negative, neutral): neutral
Annotation process for chunk 4 completed!

```

```
files.download('chunk_4.csv')
```

```

chunk_size = 50
last_annotated_index = 200

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_5.csv', index=False)

```

```
print("Annotation process for chunk 5 completed!")
```

```

Tweet Text: missing my mom
Enter sentiment (positive, negative, neutral): negative
Tweet Text: A little sad pretty bad news and feel too much insecure about my playing.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: oOhwee naw i just been chillin tryna get use to this new work schedule of having to be at wrk @ 7...
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Hahaha! Don't be scared. They need fresh minds and you're it.
Enter sentiment (positive, negative, neutral): positive
Tweet Text: grandparents arrive tomorrow... good nite
Enter sentiment (positive, negative, neutral): positive
Tweet Text: that was a good chat! keep u posted guys...
Enter sentiment (positive, negative, neutral): positive
Tweet Text: to much waffle & not enough drinking going on. he's a less annoying version of numpty! & he's not
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i knooow its the pizza girl episode xD &lt;3
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Random drunk girl sitting by my car: "Is that your man bag?" Me: "Yes, that's my man bag.&
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: lots of cool ppl ~& #followfriday
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Alright this is my debute twitt yay lol
Enter sentiment (positive, negative, neutral): positive
Tweet Text: girls i am outta it then my exams
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Why do peep toe shoes hurt so bad

```

```

Enter sentiment (positive, negative, neutral): negative
Tweet Text: do celebs get more characters than the rest of us?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: need to charge my mac...
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Keyshia cole loves bebe too!!!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I want my bed x
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Dang it....BRB....have to get the cake, candles and ice cream out and sing happy birthday to my niece. Sweet
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Olympus E-410. Besides the recent digital lenses, I also got an old 50mm OM lens which mounts via a simpl
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: is going to watch the brewer game, eat soup, play sims and sit in a vaporizer filled room. stupid cold. thi
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Hmmmm.... My whole body feels sore!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I'm sooo happy you'll get to re-take penguin pics! I collect penguin stuff and am a penguin FREAK! Can't w
Enter sentiment (positive, negative, neutral): positive
Tweet Text: My server has been going down lots lately, it makes me a sad WoW player lol
Enter sentiment (positive, negative, neutral): negative
Tweet Text: how would you feel if was in a GoBernos video? eh eh
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: cheers, I spotted that - couldn't find it on the App Store though
Enter sentiment (positive, negative, neutral): negative
Tweet Text: sore throat
Enter sentiment (positive, negative, neutral): negative
Tweet Text: He'd go anywhere with me
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: your tarot twreading is next.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: lol love how we put some in stars: *some* haha...*crosses fingers* i hope you get more

```

```
files.download('chunk_5.csv')
```

```
chunk_size = 50
```

```
last_annotated_index = 250
```

```
## Annotating the next chunk of tweets
```

```
start_index = last_annotated_index
```

```
end_index = min(start_index + chunk_size, len(tw))
```

```
chunk = tw.iloc[start_index:end_index].copy()
```

```
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
```

```
chunk.to_csv(f'chunk_6.csv', index=False)
```

```
print("Annotation process for chunk 6 completed!")
```

```

Tweet Text: Dam texts woke me up
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I could seriously go back to sleep working 3-11 tonight w/ mitch...but toni won't be there...it's not the
Enter sentiment (positive, negative, neutral): negative
Tweet Text: eatin an icecream
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I'll be giving the Mark Birley a wear later this week, even though I'm not a "quiet man".
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: happy birthday to andy hurley
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Hangin with my bestie suzi
Enter sentiment (positive, negative, neutral): positive
Tweet Text: FML.. today sucks.. i just hope the dance will bring my soul up.. i pray, but im still sad..i hateee today
Enter sentiment (positive, negative, neutral): negative
Tweet Text: But I will follow
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I'm saying good bye to a good friend tonight... kinda sad
Enter sentiment (positive, negative, neutral): negative
Tweet Text: my last nite in work for weeks....ah im in such good humour
Enter sentiment (positive, negative, neutral): positive
Tweet Text: My Sonic skills have not improved... Running, fine. Spinning, awesome. Jump from platform to platform? The
Enter sentiment (positive, negative, neutral): positive
Tweet Text: saw a red balloon flying outside my window. somewhere out there, a kid must be crying because the wind blew
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Working today. Closing. 2 - 11. Missing out on Ming's birthday dinner/party.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: just wanted to say the youngstown girls miss you .. & what happened to tell it like it is on itunes?
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Ahhh...I finally don't have to keep 5 guys happy...I get waited on tonite
Enter sentiment (positive, negative, neutral): positive
Tweet Text: hope you feel better mommy I love you :X
Enter sentiment (positive, negative, neutral): positive
Tweet Text: it is...but i was told i was gonna be entertained and i wasnt
Enter sentiment (positive, negative, neutral): negative
Tweet Text: yay! just realized i'm not driving this trip and can do all the twittering!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Thank you for reminding me! I actually have something in mind given the date. Hint, it's Star Trek related
Enter sentiment (positive, negative, neutral): positive
Tweet Text: We should have brought a flask with v0dka. Hahaha.

```

```

Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Just got pulled over on 36. I am fucking terrified of cops. My headlights out I guess mew.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: gotta go check/console/convince 2 yo to stay in bed and that he actually WANTS to go to sleep... 20 min nap
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: ok I got you!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Changed the background on here. About to go watch 'Mary Shellys Frankenstein'. Add: http://bit.ly/40hly
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I know you do, Go TEAM GB
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Hey scott, Its Ashli from Shelby County, We met when Rick and Mick were in town. How you been? It been awh
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: why did my family decide to have a family gathering? i see why you hate them. --
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Happy Birthday! Enjoy the cougar years - roar!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I work 9-6 today with bitch boss
Enter sentiment (positive, negative, neutral): negative

files.download('chunk_6.csv')

chunk_size = 50
last_annotated_index = 300

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_7.csv', index=False)

print("Annotation process for chunk 7 completed!")

Tweet Text: he's definately a strong lil guy!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I watched UP! This time I cried It's really sad and hilarious ... That movie totally rocks!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: just booked my driving test
Enter sentiment (positive, negative, neutral): positive
Tweet Text: i've been working for more than 24 hours now
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I wish I was a celeb like you, Miley Cyrus, Selena Gomez, Taylor Swift, and all those pretty girls out the
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I can't believe the last survivor of the Titanic died...that's really sad!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Starting to wonder if my future landlord is crazy or prejudice against americans.. this may not end well
Enter sentiment (positive, negative, neutral): negative
Tweet Text: and the reasons are never wrong my dear... they are absolutely lovely wow
Enter sentiment (positive, negative, neutral): positive
Tweet Text: well done on all your reporting. Haven't been vocal but have enjoyed and appreciated your work. Cheers la
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I would love the 85mm 1.2 .. but would settle for the 85mm 1.8. I'd also love a 1Dsmark3 for it to sit on
Enter sentiment (positive, negative, neutral): positive
Tweet Text: very good price
Enter sentiment (positive, negative, neutral): positive
Tweet Text: You have many friends here who will walk with you through the dark and the light. Smile
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: soo hungry! hot dogs with all the fixings? sounds yummy !
Enter sentiment (positive, negative, neutral): positiive
Tweet Text: is having a bad day - email not working properly and looks like the 10km run is off for me
Enter sentiment (positive, negative, neutral): negative
Tweet Text: you speak my name in chat? please?I am a big fan your...follow me?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: The Tonight Show w/ Conan was AWESOME!!! I missed that tall, pale, red-headed man!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: : never date anyone who's on twitter, then you can't tweet about how whack they are.&lt;----soooooooooo true
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I need someone to talk to! Who can that be?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: still your old joker kinda self...im glad...i kinda miss it
Enter sentiment (positive, negative, neutral): positive
Tweet Text: un vot pe blogoree pls: http://bit.ly/ueU66 Multumesc!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Dear baby, I can't wait until your teething days are over.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: LOL, I didn't know it was on OF COURSE if watch that dumb bitches show ;- ) like a train wreck... Can't st
Enter sentiment (positive, negative, neutral): negative
Tweet Text:
Enter sentiment (positive, negative, neutral):
Tweet Text: BlackBerry troubles all over.. fortunately enough I don't have one! My HTC Touch works fine, for almost 2 y
Enter sentiment (positive, negative, neutral): positive
Tweet Text: how do you know how much your twitter profile is worth?? haha...or was that a joke?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: http://mobypicture.com/?xyxxt - I knew it from the start. It's a two year old t-shirt by now. Always makes
Enter sentiment (positive, negative, neutral): positive

```



```

Tweet Text: I had Wendy's before this. That was a bad choice http://twitpic.com/6v1kp
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Thanks!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: why do people not just try to understand instead of getting pissed off when someone needs you, its cause t
Enter sentiment (positive, negative, neutral): positive

files.download('chunk_7.csv')

chunk_size = 50
last_annotated_index = 350

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_8.csv', index=False)

print("Annotation process for chunk 8 completed!")

Tweet Text: morning tweeples hope you all have a great monday
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Home and off for hopefully, a sunny weekend
Enter sentiment (positive, negative, neutral): positive
Tweet Text: OMG :o ahahaa. oh well, thats common there hihii
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: packing up my room...
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: CEO is on the floor today. Need to be careful while surfing today. It's all work and no play day.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: hitting the gym! its bout time
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Wife just left on a motorcycle ride. I still need to get my Washington plates , so I am at home, Drat!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Oh man I want palm trees and the beautiful ocean! Not cow town CO Follow
Enter sentiment (positive, negative, neutral): positive
Tweet Text: #musicmonday King Blues My Bolder
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I have a 1,500-word deadline in 2 days, stacks of research materials are surrounding me, and I don't have a
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: well at least you had a great time and thats what's important!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Oh and more car FAIL, after all the work i had done Fri., the Check Engine light went on just as i got home
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I'm jealous. I wanna nerd out
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Sup fam? Hope you have a GREAT weekend! Keep doing what u do, we appreciate u
Enter sentiment (positive, negative, neutral): positive
Tweet Text: http://twitpic.com/4eg0i - Before his hair cut. I just wanna kiss that little face all day long
Enter sentiment (positive, negative, neutral): positive
Tweet Text: r u romeo from somewhere?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Only problem with Google Chrome: no foxkeh
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Figuring out how to live a life where I'm my own boss... fun
Enter sentiment (positive, negative, neutral): positive
Tweet Text: CAN YOU SAY AFTER 30 HOURS OF TRAVELING IM FINALLY IN ARGENTINA?! yes! oh hello Buenos Aires, how i love yo
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Saha
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I don't feel well at all. Dizziness and vomit. No fun
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I want to drink tonight,, want a cosmopolitan
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I have already watch that video lol
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Everytime she stops talkin or replying for hours or days it is like she's leavin me all over again
Enter sentiment (positive, negative, neutral): negative
Tweet Text: is off to work til 4! Happy Hump Day!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: .... Hope you're okay?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i made 29 updates today, my record xD talk to you tomorrow bye
Enter sentiment (positive, negative, neutral): positive
Tweet Text: aww tell me about it!!! its just not the same hope you have a better day
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Hey, great minds think alike!
Enter sentiment (positive, negative, neutral): positive

```

files.download('chunk_8.csv')

```

chunk_size = 50
last_annotated_index = 400

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_9.csv', index=False)

print("Annotation process for chunk 9 completed!")

Tweet Text:  yeah, i've started too
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  I have got to bid ou all goodnight tweeps. Need to spend more QTwith the miniscule before he leaves for th
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  Tra la la la la! might make a video later see if i can be bothered
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  lol that would tiiiiight but idk about money situation!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  I miss Ashley so much right now
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  i can't believe this is all part of my detox (it is) because i was so fine and now i'm talking all core wou
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  is rockin' a minivan til the STi is ready. I miss it already
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  Sooooo happy right now. I &lt;3 my old high school friends. Miss the boy already, though.
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  hey, wassup?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  it seems that I'm going to lose the big #lgp2009's feast I hope you enjoy it as much as I did!
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  Oh dear should go out when your better
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  Luckyyyy. I want to ding dong ditch with ya'll. Jealous.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  LOL I'm in your favourites 3 times!!!
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  Have a safe trip, Desti, and have lots of fun!!! Hope you can tweet us a lot And give 4700 kisses from u
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  http://twitpic.com/6ub7v - Great view
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  mmm taco doritos=heaven in my mouth
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  morning already
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  MTV Movie Awards yesterday: congrats Robert, Kristen, Miley and the Twilight's makers. &lt;3
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  http://twitpic.com/8cwzd - the swimming pool of our hotel... that makes me dream of summer... in Vienna we
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  Plans for today: Lunch with my darling Leila, getting my hair cut... Ok, that's the good part
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  hahaha it washed all the sick off of me.
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  I'm here princess! Need to try to eat something before I drink. Still having waves of nausea - I should h
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  Issue of Echelon?..Are they behind some Botnets also? ..you can watch...http://tinyurl.com/c8dns8 ah..but
Enter sentiment (positive, negative, neutral): neutral
Tweet Text:  hooray for your english being done , but we are screwed for everything else
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  No 12-hour coma today. I had a nightmare that shook me awake.
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  We missed you
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  dear nick jonas, please teach me how to play the glockenspiel. that is just about the coolest instrument n
Enter sentiment (positive, negative, neutral): positive
Tweet Text:  3 hours till SD. longest trip ever. Never again. Ate a salad n pasta at dinner n couldn't even finish my pa
Enter sentiment (positive, negative, neutral): negative
Tweet Text:  #goodsex get the itus
Enter sentiment (positive, negative, neutral): positive

```

```
files.download('chunk_9.csv')
```

```

chunk_size = 50
last_annotated_index = 450

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_10.csv', index=False)

print("Annotation process for chunk 10 completed!")

```

```

Tweet Text: i tried to vote but my phone sucks and wouldn't let me
Enter sentiment (positive, negative, neutral): negative
Tweet Text: voting has closed
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: - That's a great mood to be in. Do you mind if I borrow it for this week?!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: aw poor baby
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Photo: suneoke: saddens me that she's taken *tear* lol http://tumblr.com/xgolz1owl
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Then - Brad Paisley
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: giving up on having a job this summer. Managers continue to fail to call me. Looks like its going to be a l
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Rumours OS 3 being released when Apple employees get into work (9am). Therefore 5pm uk time
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: uni. home work
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: enjoying my week off...now comes the busy part...
Enter sentiment (positive, negative, neutral): positive
Tweet Text: i am, thanks (: i'll put you in mine
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Checking in Good morning twitter fam! I'm in Miami, up bright and early, ready to hit the gym! xo
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Please play Daisy Cutter+Jackpot+the rest of Uplifter in Atlanta. That'd be a pretty good 4th of July.
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Bank card fraud victim $1,600 spent in 24hs. $400 at Celebrities, $400 at Richards on Richards and $800 at
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: has to go. bye http://plurk.com/p/z2e6x
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: taking a bath..and then go to the chruch!!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: not good, not good.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: did you get your yabbies and your yobbos mixed up, or something?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: basically i was going 2 go 2 ur casa as soon as i got my license but u wernt home so...
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: cold and flu tablets = EPIC FAIL. they dont even work
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I don't know where is she... but I miss her ahah goodnight honey! n.n
Enter sentiment (positive, negative, neutral): positive
Tweet Text: tired and beleives early mornings should be illegal!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: aaah, sorry, you know i love you really!! hee hee ;)
Enter sentiment (positive, negative, neutral): positive
Tweet Text: most of the time
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Oven has been on since 3:15... that's almost 3 hours! 3 loaves (1 cinnamon bread) & 2.5 batches of rol
Enter sentiment (positive, negative, neutral): negative
Tweet Text: yes, and FOH played at my friends school how unfair?
Enter sentiment (positive, negative, neutral): negative
Tweet Text: man... I'll miss the JRuby on Google App Engine talk at #railsconf
Enter sentiment (positive, negative, neutral): negative
Tweet Text: friday night and no 1 to go party wit im a loner in my own country
Enter sentiment (positive, negative, neutral): negative
Tweet Text: no, orkut?
Enter sentiment (positive, negative, neutral): neutral

```

```
files.download('chunk_10.csv')
```

```

chunk_size = 50
last_annotated_index = 500

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_11.csv', index=False)

```

```
print("Annotation process for chunk 11 completed!")
```

```

Tweet Text: do you hate us ?
Enter sentiment (positive, negative, neutral): negative
Tweet Text: my car is dead..... what am i to do Poor bug
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Sorry, that last was for Doctor who geek speak
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Happy b-day Backstreeets!!!!Hope you go for many many moree!!Thank you for ur amazing music
Enter sentiment (positive, negative, neutral): positive
Tweet Text: My sis didnt get hers either
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Morning to all! Hope its a nicer day where you are compaired to here. It's going to rain all day and the ne
Enter sentiment (positive, negative, neutral): negative

```

```

Tweet Text: Awww, Danny. Sorry I'm late! Who wouldn't accept the offer to teach you uploading?
Enter sentiment (positive, negative, neutral): negative
Tweet Text: She's writing a book! It's good so far
Enter sentiment (positive, negative, neutral): positive
Tweet Text: That's the other solution. But it then stops genuine people from following you spontaneously based on you
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: the land of replies is indeed a labourious place at least you know you're loved! xo
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Wondering if I should take K to the release of Transformers 2 tomorrow. I hate crowds
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Only problem was lack of sauce The sauce is awesome, but not enough
Enter sentiment (positive, negative, neutral): negative
Tweet Text: It lets me through, but then gives a &quot;Sorry, no exact matches were found, but other tickets may still
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I requested you.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Having a well-deserved Guinness
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I can NOT believe my baby girl is 3!! I know I'm lame b/c I'm actually sad about this!!I don't want her to
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Yeah I got excited by seeing that changelog, then was bitterly disappointed there's no push notifications
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Everybody's laughing at my neon day-glow argyle socks.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: In your option i have to take tha nice guy
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: sunny morning
Enter sentiment (positive, negative, neutral): positive
Tweet Text: waiting for my dad to pick me up. we're gonna watch a movie btw, new photos SOON!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: hates smart-arse rookie cops on power trips who pull you over and issue $189 fines
Enter sentiment (positive, negative, neutral): negative
Tweet Text: we appreciate the unscheduled coverage. keep it up and give the crew a raise
Enter sentiment (positive, negative, neutral): positive
Tweet Text: right on ! Just bought this new computer, will be mig easier to get code done
Enter sentiment (positive, negative, neutral): positive
Tweet Text: i am so bored!! well lets see i am writing my spanish paper and guess wht! schools over FML!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: woot! i have 77 points on my subway card! 75 points is a free foot long! going to get it now!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: i been saying that the past 2 weeks that i miss playing spades and drinkin chillin.. the good old days.. l
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: No mini vacations for the moment Starting a week with different / many things to do. Thank you God
Enter sentiment (positive, negative, neutral): positive
Tweet Text: i have no idea how i'm going to fix things with me and landon! i want things back to normal but i don't kno
Enter sentiment (positive, negative, neutral): neutral

```

```
files.download('chunk_11.csv')
```

```

# Annotation function
def manual_annotation(tweet):
    print("Tweet Text: ", tweet)
    sentiment = input("Enter sentiment (positive, negative, neutral): ")
    return sentiment.strip().lower()

```

```

chunk_size = 50
last_annotated_index = 550

```

```

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_12.csv', index=False)

```

```
print("Annotation process for chunk 12 completed!")
```

```

Tweet Text: just found out that the Boston Celtics lost to the Orlando Magic!! FUCK FUCK!! What a way to start the work
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Feels partly responsible about the trouble in Iran cos his avatar STILL isn't green.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: is jesus christ also tweeting I wonder?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Don't forget to watch too!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Sittin on a train platform waitin for a train. Quite possibly hav just failed another test
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Slightly better version. Posted the wrong one earlier. Sky is still blown out, sadly Love the shot tho htt
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: were the ones who made you x
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: FINALLY won a game of Settlers Of Catan. Also booked restaurant for birthday dinner. Life is good
Enter sentiment (positive, negative, neutral): positive
Tweet Text: is dreading work tomoz, wonders if everything was done correctly at close :S gonna double check everything
Enter sentiment (positive, negative, neutral): negative

```

```

Tweet Text: Get 100 followers a day using www.tweeterfollow.com Once you add everyone you are on the train or pay vip
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: yep.yep. day job is kicking my butt at the moment.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Together with michael. We just decided to cook some breakfast together.
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I know what you mean rain sucks...
Enter sentiment (positive, negative, neutral): negative
Tweet Text: *sigh* more boring history to do
Enter sentiment (positive, negative, neutral): negative
Tweet Text: What's up!? You rock!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: uploading photos from photoshoooot guitarist is uber persistant..they're coming!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: today was just SPLENDID!!!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: major focus issues in rehearsal today-wish i was outside so bad cant wait to bbq hope 2nite !! come on 6 o
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: in Rome and it's raining
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Foiled again! Being dragged out by parents at a moments notice. I want to draw!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I wish I could sleep
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I say stick to your guns...it will drive the women crazy.
Enter sentiment (positive, negative, neutral): positive
Tweet Text: that sucks.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: no wayyy to much hw I gotta finish first. And it's way cold out!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: and just made my day luvv deemmm!!! haha
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I have a request! Play Structure of a Heart tonite please
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i mean, i thought i was supposed to be like, excited and happy at this point, not stressed
Enter sentiment (positive, negative, neutral): negative
Tweet Text: You strike again with your article on twitter ! http://bit.ly/0b9HA
Enter sentiment (positive, negative, neutral): positive
Tweet Text: is so tired from my workout..plus.. waiting to get some work soo bad.. UGH&gt;. i hate not having any money
Enter sentiment (positive, negative, neutral): negative

```

```
from google.colab import files
```

```
files.download('chunk_12.csv')
```

```
chunk_size = 50
```

```
last_annotated_index = 600
```

```

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_13.csv', index=False)

```

```
print("Annotation process for chunk 13 completed!")
```

```

Tweet Text: I can finally go to bed now that I know who gets the gold logie, im disappointed it wasn't rove though
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Okay Mike, you have great photos, but can you take them right-side-up? I'm getting a neck crick!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: seems like a nice day-guess it's off to the park with my lil man
Enter sentiment (positive, negative, neutral): positive
Tweet Text: that's cause they are. I adopted them when my pup got into the nest & ate the others.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Not feeling it today
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Oh noooes! Cos of lodging with family I try to avoid getting one after 10pm... prob just as well
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: you deserve it.. enjoy. the fact that you didn't break a nail gives you some superhero status, btw. *smoo
Enter sentiment (positive, negative, neutral): positive
Tweet Text: ahh computer class with tori and geena watching TH HANGOVER later with torii
Enter sentiment (positive, negative, neutral): positive
Tweet Text: ta. we're not all racists
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: isnt traffic fantastic & insert sarcasm&gt;
Enter sentiment (positive, negative, neutral): negative
Tweet Text: GAMING UP A STORM TODAY!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: iPhone 3GS and N97 launching in Australia on the same day. Feel the marketing hype kicking into overdrive f
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Sounds possible It even looks so confusing u dont wanna try! I have to use it at school and I always mess
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: wow i never thought i would have 30 followers. thanks!
Enter sentiment (positive, negative, neutral): positive

```

```

Tweet Text: I would have to agree with you on that
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: God I wish I was still in America
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: God damn why does my knee hurt?
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I heard plants can twitter, too. My little acorn-tree &quot;yusuf&quot; would cough if he could. He's reall
Enter sentiment (positive, negative, neutral): negative
Tweet Text: very Cruella Deville of you
Enter sentiment (positive, negative, neutral): negative
Tweet Text: http://twitpic.com/7r1sh - i miss wearin' that jacket... i love the fur, i miss it
Enter sentiment (positive, negative, neutral): negative
Tweet Text: went to the Blue Room, saw a bunch of awesome sea turtles and ate a huge fish eye with Justin and Sayer I
Enter sentiment (positive, negative, neutral): positive
Tweet Text: My better half is tending to the balcony jungle...She's planting herbs
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I LUV buying children's bks (well all bks really... Its an obsession!). Good think its part of my daily jo
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Awww it all worked out in the end
Enter sentiment (positive, negative, neutral): positive
Tweet Text: poor sutil.... tried to hard to maintain his position
Enter sentiment (positive, negative, neutral): negative
Tweet Text: lets blow stuff up
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Church Sign: Heavenly forecast - reign forever!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: That's good. How are you feeling?
Enter sentiment (positive, negative, neutral): positive
Tweet Text: ah i see well i rekon we must be annoying aidan with our twitter whore antics :L cant find anything to wat
Enter sentiment (positive, negative, neutral): negative

```

```
files.download('chunk_13.csv')
```

```
chunk_size = 50
```

```
last_annotated_index = 650
```

```
## Annotating the next chunk of tweets
```

```
start_index = last_annotated_index
```

```
end_index = min(start_index + chunk_size, len(tw))
```

```
chunk = tw.iloc[start_index:end_index].copy()
```

```
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
```

```
chunk.to_csv(f'chunk_14.csv', index=False)
```

```
print("Annotation process for chunk 14 completed!")
```

```

Tweet Text: Thank You very much! I'll be ready to write and write, but now seems for nothing, I don't know how to dist
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: yeah, just go to the county where you live. We got out license in multnomah and got married at the coast!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: reality is always shocking. . .
Enter sentiment (positive, negative, neutral): negative
Tweet Text: my name is Ashley
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Eli in the ER they pricked his finger for blood sugar and he was trying not to cry http://twitpic.com/67z2
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Nooo we leave in 2 hours
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I corrected myself
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: shout to the homie for the #ff love. even though she's too cool to follow me
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Helping out @ Corner Stone tonight
Enter sentiment (positive, negative, neutral): positive
Tweet Text: sat listening to the rain tap the window ledge an about to have a shower seen as there is nothin else to do
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: looking forward to inFamous. 'been trying to get through Mass Effect but I have a feeling it wont get a lo
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Exams soon !
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: listening to eagles call on Catalina Island...they are almost ready to fledge
Enter sentiment (positive, negative, neutral): positive
Tweet Text: now I seem to have no pic at all
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Must now learn english for testpaper tomorrow. Bäääähhh I have wrote Autumn Reeser an email!!!!!! Hope she
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I like this icon. Your eyes are awesome in it
Enter sentiment (positive, negative, neutral): positive
Tweet Text: &quot;There's a stick thats gonna kill me!&quot; -Emily
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Less games? Aww...That must be hard for you...
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: wake up in Paris, but it's grey .. need more sun !!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: No doubt, let's make it happen - hit me at fuseboxradio.com!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: LOL seems someone put the bulls eye on your back... ushikwapo shikamana

```



```

Enter sentiment (positive, negative, neutral): neutral
Tweet Text: http://twitpic.com/3tl66 - aww kiro got cut off
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: . . . from the frig. . .but im sure i could have just went and told you that in person. lol
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I'm out... *kicks Twitter*
Enter sentiment (positive, negative, neutral): negative
Tweet Text: R family enjoyed the travel ovr thr, FlagStaff AZ, & the 2 wonders of the world! They say many r movi
Enter sentiment (positive, negative, neutral): positive
Tweet Text: omg, telkomsel BIS is down again! again!!! thinking of changing provider
Enter sentiment (positive, negative, neutral): negative
Tweet Text: most def hey mr.jackson !
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: What type of dog is it? I tried to name my dog (half chow, half lab) Moogles years ago but that got vetoed
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i have the flu.

files.download('chunk_14.csv')

# Annotation function
def manual_annotation(tweet):
    print("Tweet Text: ", tweet)
    sentiment = input("Enter sentiment (positive, negative, neutral): ")
    return sentiment.strip().lower()

chunk_size = 50
last_annotated_index = 700

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_15.csv', index=False)

print("Annotation process for chunk 15 completed!")

Tweet Text: trying to figure out this twitter thing...none of my friends are on yet. Soo much to see.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Re-pinging : Custom icons I made! =] look cool but the edges could be less square might look bad on a diff
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I want to be back in LA
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i dunno how to use the forum and i get frustrated with it. i'll miss talking to you on here.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: not an option
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Unfortunately one of those moments wasn't a giant squid monster.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I want one too is the branch in MidV open too?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: aw, sorry to hear that.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Change of plans, we ordered Macs instead. Time to hit the books!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: YUP.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: did you see Donnie's tweet stats? almost 700 @ replies...and no JRK
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: nah, I haven't received my stimulus yet
Enter sentiment (positive, negative, neutral): negative
Tweet Text: i just seen ur tweet . plz write bak if u get this. i havnt got one reply bak
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Awwwww and you were trying to go to sleep 3 hours ago
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I'm so sorry to hear that. It's always sad when we lose those close to us, as we loved them.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: cant sleep but im still feelin like a piece of shit
Enter sentiment (positive, negative, neutral): negative
Tweet Text: oh my sympathies. it's a hard decision. i always hope my old border collie will go in her sleep. she's 14
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: ...well there was this really cool part where... i wont spoil it
Enter sentiment (positive, negative, neutral): positive
Tweet Text: I'm doing the time warp without you and am sad.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: this is true, lol but it's still a slap in the face after such a warm end of march
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I hate converting movies just to put em on my itouch
Enter sentiment (positive, negative, neutral): negative
Tweet Text: gross i have a pimple
Enter sentiment (positive, negative, neutral): negative
Tweet Text: yea ma'naaaaaaaaaaaaaaaaaaaaaam (marwan accent) lol
Enter sentiment (positive, negative, neutral): positive
Tweet Text: one less follower tonight
Enter sentiment (positive, negative, neutral): negative

```

```

Tweet Text: so did your mom last night. brb while I figure out whether I just burned you or myself the most.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I feel like I am the only &quot;twitterer&quot; not on TweetDeck.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: He has Karate tournament in 8 weeks
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: going to sleep can't be up until 1am again...and no I didn't finish my statistics homework!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: North carolina baby!! Aint nothin stopping them but the nba draft
Enter sentiment (positive, negative, neutral): positive

from google.colab import files
files.download('chunk_15.csv')

# Annotation function
def manual_annotation(tweet):
    print("Tweet Text: ", tweet)
    sentiment = input("Enter sentiment (positive, negative, neutral): ")
    return sentiment.strip().lower()

chunk_size = 50
last_annotated_index = 750

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_16.csv', index=False)

print("Annotation process for chunk 16 completed!")

Tweet Text: cool , i have no tweet apps for my razr 2
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I'm off too bed. I gotta wake up hella early tomorrow morning.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: still procrastinating... i hate organizing my clothes there's just so much....
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Just been playing with the new Mobblor v0.4.0 and it adds some great new features, but won't play music on
Enter sentiment (positive, negative, neutral): negative
Tweet Text: oh but there's one bestie missing
Enter sentiment (positive, negative, neutral): negative
Tweet Text: time to come back to flawda for double dates! no, seriously, i'm sorry to hear that.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I'm up way to late to be working for a client 12:10 AM #fb
Enter sentiment (positive, negative, neutral): negative
Tweet Text: blegghhhh i have to go to work
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Back at work @ John Muir Dr http://loopt.us/KogAbg
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I emailed you yesterday and u never responded
Enter sentiment (positive, negative, neutral): negative
Tweet Text: It's going to be a long year for A's fans.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Just got done watching the new House episode. Definitely one of the saddest episodes ever.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Man... taxes suck. I'm horrified that i did something wrong on them. TurboTax decided to keep around a lo
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Sleep time. Tomorrow is gonna suck
Enter sentiment (positive, negative, neutral): neative
Tweet Text: WTF Not Kutner! Oh I'm so pissed @ House. I mean really WTF
Enter sentiment (positive, negative, neutral): negative
Tweet Text: i know i dont know why i said that
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: CASH RULES EVERYTHING AROUND ME
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Just picked up some oats from the market to eat for breakfast with my boy now time to do work at USC... la
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i feel sick too much icecream
Enter sentiment (positive, negative, neutral): negative
Tweet Text: this computer doesn't have shockwave...blah no account yet
Enter sentiment (positive, negative, neutral): negative
Tweet Text: awww wish i could go! but its in sydney
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: hahaha suriously! I feel like everyone knows this show is a joke except lc!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I just can't spell today, i totally suck
Enter sentiment (positive, negative, neutral): negative
Tweet Text: are you vaccinated against chicken-pox?should I vaccinate my 3 yr old?I am SO confused about this damn thin
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: @ school at least last day!!!!!!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: Yawwwn! Gotta get up early tomorrow who's ready for the weekend???
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i miss being at home for calving season...sad that black one died this morning wish i had some bottle calv
Enter sentiment (positive, negative, neutral): negative

```



```

Tweet Text: i so sorry for your loss. my brother dog sam is sick w/cushings disease.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Back to work. I get to spend the next 8 hours alone in the dispatch room
Enter sentiment (positive, negative, neutral): neutral

```

```

from google.colab import files
files.download('chunk_16.csv')

```

```

# Annotation function
def manual_annotation(tweet):
    print("Tweet Text: ", tweet)
    sentiment = input("Enter sentiment (positive, negative, neutral): ")
    return sentiment.strip().lower()

```

```

chunk_size = 50
last_annotated_index = 800

```

```

## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_17.csv', index=False)

```

```

print("Annotation process for chunk 17 completed!")

```

```

Tweet Text: my little pinky finger hurts so much..
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I'm sorry your gift card ran out.... That suck.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: home for spring break. no one is home tho
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I accessed oneindia.mobi from a Google phone (Android). It doesn't support Indic languages
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Why does school take over your life so much you don't get sleep anymore .. I am still doing school work an
Enter sentiment (positive, negative, neutral): negative
Tweet Text: aw I wish I could! I can't really speak to my yia yia because she doesn't speak english
Enter sentiment (positive, negative, neutral): negative
Tweet Text: no free comp lol
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: getting ready to clean the house from top to bottom
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: crying my friend is moving away tomorrow
Enter sentiment (positive, negative, neutral): negative
Tweet Text: STOP NOMNOMS!!!! ..you didn't share! Night peoples!!
Enter sentiment (positive, negative, neutral): negative
Tweet Text: thinks she is getting a cold that she caught from Daddy. Oh no, my trip would be ruined.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: yeah is it bcoz kal penn is a visiting lecturer somewhere n cant be on the show anymore? im gonna miss hi
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: So the procrastination starts early in the quarter. I don't want to reaaaaad and write a paper
Enter sentiment (positive, negative, neutral): negative
Tweet Text: What? Apparently it's 52 degrees at 11pm in Washington State. I miss winter already
Enter sentiment (positive, negative, neutral): negative
Tweet Text: being bored at homee
Enter sentiment (positive, negative, neutral): negative
Tweet Text: massage was great. i just spilled coke all over my desk lame. watching the simpsons as i've finished all m
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I will wait for you at fanclub chat.. even tough you're not my favorite
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: has a mild left inner ear infection.. and its got this irritating &quot;blocked&quot; feeling since sunday.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Hey there! Nope. My cuteness is away for awhile
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: It's only tuesday
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Haha not even yo. I just didn't know how to do that to you on twitter Haha
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Someones alarm clock or a phone woke me up at 3am...Still got my headache from yesterday night
Enter sentiment (positive, negative, neutral): negative
Tweet Text: awww poor puppy is she ok?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i might break down and eat some buffalo wings tomorrow
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Sittin here w/Kayla, I really really reallly dis-like having a brother. He doesn't know when to stop. I'm
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Fed bokie too many birthday treats-sicko
Enter sentiment (positive, negative, neutral): negative
Tweet Text: 's Kinda Bummed. An Agency Just Told Me That I Didn't Have The 'LOOK' That They Were Going For. Ladies, Ple
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Work laptop is officially dead .. Not happy at all..
Enter sentiment (positive, negative, neutral): negative
Tweet Text: My goodness, it's freezing down here !!!!!
Enter sentiment (positive, negative, neutral): negative

```

```
from google.colab import files
files.download('chunk_17.csv')
```

```
# Annotation function
```

```
def manual_annotation(tweet):
    print("Tweet Text: ", tweet)
    sentiment = input("Enter sentiment (positive, negative, neutral): ")
    return sentiment.strip().lower()
```

```
chunk_size = 50
last_annotated_index = 850
```

```
## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_18.csv', index=False)
```

```
print("Annotation process for chunk 18 completed!")
```

```
Tweet Text: Opening a partially frozen beer= Beer on the toaster, under the oven and all over the counter. The kitchen
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: no i dont even know how to ride it
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: sadly, yes. i think i need counseling now
Enter sentiment (positive, negative, neutral): negative
Tweet Text: making myself ready for school...don't feel like going, but have two tests
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Smugness gone. My train also failed to turn up so I'm heading for Victoria followed by an unpleasant tube r
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Anybody know where my iPod went?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: aww this earthquake in Italy has made me sad just saw the pics on the news, it's terrible.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: never been able to afford to get them out. I'd much rather go through the extraction than continue with wh
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Why do other pet care people try to run others out of business? Or send suspicious e-mails fishing for inf
Enter sentiment (positive, negative, neutral): negative
Tweet Text: &lt;33 codez....they've been MIA tho
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: doesnt work on my cell go to sleep! =P
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: it's going to be nice again tomorrow and then the rain comes back. no nice weather for my birthday
Enter sentiment (positive, negative, neutral): negative
Tweet Text: rock band is hard..on expert!!!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: : roomie was home all day. All he had to do was scratch at the door. Comforter has to goto large laundromat
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: One of the hardest thing with this schedule, no one I can chat with at the end of my day usually
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: they killed off a character on one of my favorite shows and now i'm upset
Enter sentiment (positive, negative, neutral): negative
Tweet Text: jealous of my friends who got to see the new Star Trek film in Austin tonight.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Listening to Q! I got a really bad headache and a drivin lesson in ten mins.... Lucky me i just wana slee
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: SHUT UP you...I am hungry! And in Britain, home of the most boring suckassy breakfast in the world! I MIS
Enter sentiment (positive, negative, neutral): negative
Tweet Text: good morning everybody! pkoi y fais pas beau bon coffee time!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: work again
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Essay time....
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: hey did u talk to mom.. r they home yet? i hope they r ok.. wish i was coming home 4 easter..
Enter sentiment (positive, negative, neutral): negative
Tweet Text: I sure wish I could go with you guys tmrw. But as per usual, school interferences.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: say what??? kal penn's leaving house?! noooooo!!! awww... i totally missed it tonight
Enter sentiment (positive, negative, neutral): negative
Tweet Text: no! i lost a loyal
Enter sentiment (positive, negative, neutral): negative
Tweet Text: played another hand very bad and lost half my stack
Enter sentiment (positive, negative, neutral): negative
Tweet Text: It's 6.20pm - early days in a loooooong night at work
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: It's sad it's the last season. I wanna see when Spencer calls Lauren!
Enter sentiment (positive, negative, neutral): negative
```

```
from google.colab import files
files.download('chunk_18.csv')
```

```
# Annotation function
def manual_annotation(tweet):
    print("Tweet Text: ", tweet)
    sentiment = input("Enter sentiment (positive, negative, neutral): ")
    return sentiment.strip().lower()
```

```
chunk_size = 100
last_annotated_index = 900
```

```
## Annotating the next chunk of tweets
start_index = last_annotated_index
end_index = min(start_index + chunk_size, len(tw))
chunk = tw.iloc[start_index:end_index].copy()
chunk['sentiment'] = chunk['tweet_text'].apply(manual_annotation)
chunk.to_csv(f'chunk_19.csv', index=False)
```

```
print("Annotation process for chunk 19 completed!")
```

```
Tweet Text: so far i have 311 veiws on all my sites put together, most of them were me checking out the updates i made
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Listening to Bjork's All is full of Love... crying
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Omg the hills! Then I love money2, aww I think becky buckwild goes
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: is craving for some tantan nabe http://plurk.com/p/mzxcs
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: C'mon sean man
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Watching &quot;a league of their own&quot;...makes me miss mint chocolate ice cream cones and my grand ma
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Lost my phone some where.maybe in the grass, its just so long, hope it doesn't rain
Enter sentiment (positive, negative, neutral): negative
Tweet Text: hope you aren't referring to me say hello to your new stalker LOL
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: why were u sleeping?! Ur gonna be up all night now how was ur bike ride?
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: But, but, but . . I wanna listen to the masters too!
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: I've been looking about for good stuff to write, but also been doing loads of uni work
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i feel unloved. dropped 2 tweeters
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Off to London for the day on Thursday, it's gonna be raining, oh fab won't see much on the London Eye! Sti
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Completely wiped and reloaded the 8900.... Lost all BBM contacts Going to bed sad.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: sayyyy whaaaa? I wasn't invited...
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Didn't sleep too bad considering I have a workshop starting today. Beginnings of a sore throat though
Enter sentiment (positive, negative, neutral): negative
Tweet Text: oh my gosh that made me emotional haha idk why!!! i dont want to get old
Enter sentiment (positive, negative, neutral): negative
Tweet Text: We're going to post some stories manually due to Twitterfeed problem. That's why we've been so quiet lately
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: i don't like lukewarm showers
Enter sentiment (positive, negative, neutral): negative
Tweet Text: - Who should I contact if I need a 1099 for freelance work I did on Linux.com throughout 2008? Never got o
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: connor, it's me, febi are you really really mad at me??
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Need some help?! Want to buy a Macbook pro, but still inlove with my old powerbook!
Enter sentiment (positive, negative, neutral): positive
Tweet Text: man america is so .. borez anyway lol i just realized you sent me msgs on here. i had no idea. i have no f
Enter sentiment (positive, negative, neutral): negative
Tweet Text: g'knight lovely ladies. i'm sleepy now
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Does anybody know how to get your electrolytes back in order? With a vitamin work? I feel sick.
Enter sentiment (positive, negative, neutral): negative
Tweet Text: yes, someone hasn't been reading my posts properly
Enter sentiment (positive, negative, neutral): negative
Tweet Text: Almost through with my Italian homework! Weeeeee.... now if I only understood what I was doing.
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Who turned the lights on? It will be time to get ip then
Enter sentiment (positive, negative, neutral): neutral
Tweet Text: Twitter hates us both then.
Enter sentiment (positive, negative, neutral): negative
```

```
from google.colab import files
files.download('chunk_19.csv')
```

LABELLED DONE

✓ COMBINING CHUNK FILES

```
from google.colab import drive
drive.mount('/content/drive')

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True)

import os

## chunked files
chunk_files = ['annotated_dataset_chunk_0-50.csv', 'chunk_2.csv', 'chunk_3.csv',
               'chunk_4.csv', 'chunk_5.csv', 'chunk_6.csv', 'chunk_7.csv', 'chunk_8.csv',
               'chunk_9.csv', 'chunk_10.csv', 'chunk_11.csv', 'chunk_12.csv', 'chunk_13.csv',
               'chunk_14.csv', 'chunk_15.csv', 'chunk_16.csv', 'chunk_17.csv',
               'chunk_18.csv', 'chunk_19.csv']

## chunk files path
chunk_directory = '/content/drive/MyDrive/chunkDataTweet'

## combining file
output_file = 'combined_file.txt'

with open(output_file, 'w') as combined_file:

    for chunk_file in chunk_files:
        with open(os.path.join(chunk_directory, chunk_file), 'r') as chunk:
            combined_file.write(chunk.read())

print("Files combined successfully.")

Files combined successfully.

with open(output_file, 'r') as combined_file:
    content = combined_file.read()
```

✓ downloading the combined file

```
from google.colab import files

combined_file_path_colab = '/content/drive/MyDrive/combined_file.txt'

files.download(combined_file_path_colab)
```

✓ UPLOADING the labelled tweet dataset

```
!pip install vaderSentiment

Requirement already satisfied: vaderSentiment in /usr/local/lib/python3.10/dist-packages (3.3.2)
Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from vaderSentiment) (2.31.0)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->vaderSentiment) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests->vaderSentiment) (3.6)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests->vaderSentiment) (2.0.7)
Requirement already satisfied: certifi<2024.0.0, >=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests->vaderSentiment) (2023.11.17)

!pip install scikit-fuzzy

Requirement already satisfied: scikit-fuzzy in /usr/local/lib/python3.10/dist-packages (0.4.2)
Requirement already satisfied: numpy>=1.6.0 in /usr/local/lib/python3.10/dist-packages (from scikit-fuzzy) (1.23.5)
Requirement already satisfied: scipy>=0.9.0 in /usr/local/lib/python3.10/dist-packages (from scikit-fuzzy) (1.10.1)
Requirement already satisfied: networkx>=1.9.0 in /usr/local/lib/python3.10/dist-packages (from scikit-fuzzy) (3.1)
```

```
import nltk
from textblob import TextBlob
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer
import sklearn
import tensorflow as tf
import torch
import scipy
import skfuzzy
import xgboost
import lightgbm
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.express as px
import csv
import re

import pandas as pd

combined_file_path = '/content/drive/MyDrive/combined_file.txt'

tweets = []
with open(combined_file_path, 'r', encoding='utf-8', errors='ignore') as file:
    for line in file:
        tweets.append(line.strip())

twi = pd.DataFrame(tweets, columns=['tweet_text'])

twi.head()
```

	tweet_text
0	sentiment,timestamp,tweet_text
1	positive,Tue Jun 16 18:18:12 PDT 2009, AHHH I ...
2	neutral,Mon Apr 06 23:11:14 PDT 2009," cool , ...
3	neutral,Tue Jun 23 13:40:11 PDT 2009," i know ...
4	negative,Mon Jun 01 10:26:07 PDT 2009,School e...

```
twi.shape

(1070, 1)
```

✓ removing URL

```
import re

def remove_urls(text):
    return re.sub(r'http\S+', '', text)

## Applying the remove_urls function to the 'tweet_text' column and creating a new 'cleaned_text' column
twi['cleaned_text'] = twi['tweet_text'].apply(remove_urls)

twi.tail()
```

	tweet_text	cleaned_text
1065	positive,Mon Apr 06 23:28:39 PDT 2009," thanks...	positive,Mon Apr 06 23:28:39 PDT 2009," thanks...
1066	positive,Mon Apr 06 23:28:41 PDT 2009, i miss...	positive,Mon Apr 06 23:28:41 PDT 2009, i miss...
1067	negative,Mon Apr 06 23:28:43 PDT 2009, ohhh. I...	negative,Mon Apr 06 23:28:43 PDT 2009, ohhh. I...
1068	neutral,Mon Apr 06 23:28:45 PDT 2009.And	neutral,Mon Apr 06 23:28:45 PDT 2009.And

```
## dropping the previous col
twi.drop('tweet_text', axis=1, inplace=True)

twi.sample(5)
```