

web-and-social-media-analytics

April 17, 2025

1 Load basic packages/modules

```
[1]: import os
import numpy as np
import pandas as pd

import nltk
from nltk import corpus, tokenize
from nltk.corpus import stopwords

import re

from nltk.stem import PorterStemmer, WordNetLemmatizer, porter
from wordcloud import WordCloud, STOPWORDS

from sklearn.feature_extraction.text import CountVectorizer, TfidfVectorizer
import string

from sklearn.model_selection import train_test_split

# ML
from sklearn.naive_bayes import MultinomialNB
from sklearn.ensemble import RandomForestClassifier
from xgboost import XGBClassifier

from sklearn.metrics import confusion_matrix, classification_report, \
    accuracy_score

# DNN/MLP/ANN model
```

2 Load Review Dataset

```
[2]: hotstar = pd.read_csv("hotstar_reviews.csv")
hotstar.head()
```

```

[2]: ID      UserName Created_Date \
0    1          NaN    08-10-2017
1    2          NaN    08-11-2017
2    3    asadynwa    08-12-2017
3    4    jineshroxx    08-11-2017
4    5    YaminiSachar    08-05-2017

                                Reviews \
0                                Hh
1                                No
2    @hotstar_helps during paymnt for premium subsc...
3    @hotstartweets I am currently on Jio network a...
4    @hotstartweets the episodes of Sarabhai vs Sar...

                                Lower_Case_Reviews Sentiment_Manual_BP \
0                                hh                Negative
1                                no                Negative
2    @hotstar_helps during paymnt for premium subsc...                Help
3    @hotstartweets i am currently on jio network a...                Help
4    @hotstartweets the episodes of sarabhai vs sar...                Help

Sentiment_Manual  Review_Length      DataSource  Year  Month  Date \
0      Negative           2  Google_PlayStore  2017     8    10
1      Negative           2  Google_PlayStore  2017     8    11
2      Negative          140          Twitter  2017     8    12
3      Negative          140          Twitter  2017     8    11
4      Negative          140          Twitter  2017     8     5

Sentiment_Polarity
0      Neutral
1      Neutral
2      Negative
3      Positive
4      Neutral

```

```
[3]: hotstar.shape
```

```
[3]: (5053, 13)
```

```
[4]: hotstar.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 5053 entries, 0 to 5052
Data columns (total 13 columns):
#   Column      Non-Null Count  Dtype
---  -
0   ID          5053 non-null  int64

```

```

1  UserName          4331 non-null  object
2  Created_Date      5053 non-null  object
3  Reviews           5053 non-null  object
4  Lower_Case_Reviews 5053 non-null  object
5  Sentiment_Manual_BP 5053 non-null  object
6  Sentiment_Manual   5053 non-null  object
7  Review_Length     5053 non-null  int64
8  DataSource         5053 non-null  object
9  Year              5053 non-null  int64
10 Month             5053 non-null  int64
11 Date              5053 non-null  int64
12 Sentiment_Polarity 5053 non-null  object
dtypes: int64(5), object(8)
memory usage: 513.3+ KB

```

```
[5]: hotstar.Sentiment_Manual.value_counts()
```

```

[5]: Neutral      1738
     Positive     1733
     Negative     1582
     Name: Sentiment_Manual, dtype: int64

```

```
[6]: hotstar.Sentiment_Manual.value_counts()/hotstar.Sentiment_Manual.size*100
```

```

[6]: Neutral      34.395409
     Positive     34.296458
     Negative     31.308134
     Name: Sentiment_Manual, dtype: float64

```

```
[7]: hotstar.DataSource.value_counts()/hotstar.DataSource.size*100
```

```

[7]: Twitter      55.927172
     Google_PlayStore 44.072828
     Name: DataSource, dtype: float64

```

```
[8]: pd.pivot_table(hotstar, index='Sentiment_Manual', columns='DataSource',
                    values='ID', aggfunc='count')/hotstar.DataSource.size*100
```

```

[8]: DataSource      Google_PlayStore      Twitter
     Sentiment_Manual
     Negative        12.923016  18.385118
     Neutral         5.125668  29.269741
     Positive        26.024144   8.272313

```

```
[9]: hotstar.columns
```

```
[9]: Index(['ID', 'UserName', 'Created_Date', 'Reviews', 'Lower_Case_Reviews',
          'Sentiment_Manual_BP', 'Sentiment_Manual', 'Review_Length',
          'DataSource', 'Year', 'Month', 'Date', 'Sentiment_Polarity'],
          dtype='object')
```

3 Data Cleaning

```
[10]: review_data = hotstar[['Lower_Case_Reviews', 'DataSource', 'Sentiment_Manual']]
      review_data.head()
```

```
[10]:
```

	Lower_Case_Reviews	DataSource \	Sentiment_Manual
0	hh	Google_PlayStore	Negative
1	no	Google_PlayStore	Negative
2	@hotstar_helps during paymnt for premium subsc...	Twitter	Negative
3	@hotstartweets i am currently on jio network a...	Twitter	Negative
4	@hotstartweets the episodes of sarabhai vs sar...	Twitter	Negative

```
[11]: review_data.columns = ['Reviews', 'Source', 'Sentiment']
      review_data.head()
```

```
[11]:
```

	Reviews	Source \	Sentiment
0	hh	Google_PlayStore	Negative
1	no	Google_PlayStore	Negative
2	@hotstar_helps during paymnt for premium subsc...	Twitter	Negative
3	@hotstartweets i am currently on jio network a...	Twitter	Negative
4	@hotstartweets the episodes of sarabhai vs sar...	Twitter	Negative

```
[12]: review_data.describe(include='object')
```

```
[12]:
```

	Reviews	Source	Sentiment
count	5053	5053	5053
unique	5053	2	3

top	hh	Twitter	Neutral
freq	1	2826	1738

```
[13]: review_data.Source.value_counts()
```

```
[13]: Twitter          2826
Google_PlayStore    2227
Name: Source, dtype: int64
```

```
[14]: review_data['Source'] = review_data['Source'].astype('category')
review_data['Source'] = review_data['Source'].cat.codes
review_data['Source'].value_counts()
```

```
C:\Users\Lenovo\AppData\Local\Temp\ipykernel_11216\3689932828.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
```

```
review_data['Source'] = review_data['Source'].astype('category')
C:\Users\Lenovo\AppData\Local\Temp\ipykernel_11216\3689932828.py:2:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
```

```
review_data['Source'] = review_data['Source'].cat.codes
```

```
[14]: 1    2826
0    2227
Name: Source, dtype: int64
```

```
[15]: review_data.head()
```

```
[15]:
```

	Reviews	Source	Sentiment
0	hh	0	Negative
1	no	0	Negative
2	@hotstar_helps during paymnt for premium subsc...	1	Negative
3	@hotstartweets i am currently on jio network a...	1	Negative
4	@hotstartweets the episodes of sarabhai vs sar...	1	Negative

```
[34]: list(string.punctuation)
```

```
[34]: ['!',
      '"',
```

```
'#',
'$',
'%',
'&',
'"',
'(',
')',
'*',
'+',
',',
'_',
'.',
 '/',
 ':',
 ';',
 '<',
 '=',
 '>',
 '?',
 '@',
 '[',
 '\\',
 ']',
 '^',
 '-',
 '~',
 '{',
 '|',
 '}',
 '~']
```

```
[16]: punctuation = list(string.punctuation)

stop_words = stopwords.words('english')

re_pattern = ""@[a-zA-Z0-9_:]+|b['"]rt|[\d]+[a-zA-Z_+=]?
↵)+[\d]+[\d]+[a-zA-Z_*=]+[\d]+[a-zA-Z_*=]+|[\d]+""

re_pattern = re_pattern + ""|https:+[a-zA-Z0-9/._+==]+|&|rt""

reviewText = [re.sub(pattern = re_pattern, string = text, repl="")
               for text in review_data.Reviews.map(str).values]
```

```
[17]: re_pattern
```

```
[17]: '@[a-zA-Z0-9_:]+|b[\'"]rt|\\d]+[a-zA-Z_+=\\'?]+\\d]+\\d]+|[a-zA-Z_*=]+\\d]+[a-zA-Z_*=]+|\\d]+|https:+[a-zA-Z0-9/._+==]+|&|rt'
```

```
[18]: print(reviewText[7])
```

```
why today s epi of #lovekahaiintezaar nt available on available now it was in d
morning now showing nt available due expiry
```

```
[19]: # re.sub('[^a-zA-Z]', ' ', Review[i])
```

```
[20]: # @hotstar_helps during paymnt for premium subscription the transaction failed
      ↪ twice but i have not
      # received refund for one of the transaction
```

```
[21]: review_data_cleaned = []

for review in reviewText:
    stop_free = " ".join([txt for txt in review.lower().split() if txt not in
    ↪ stop_words])
    # stop_words - NLTK
    stop_free_1 = " ".join([txt for txt in stop_free.lower().split() if txt not
    ↪ in STOPWORDS])
    # STOPWORDS - WORDCLOUD
    puct_free = " ".join([txt for txt in stop_free_1.lower().split() if txt not
    ↪ in punctuation])
    review_data_cleaned.append(puct_free)
```

```
[22]: review_data_cleaned[7]
```

```
[22]: 'today epi #lovekahaiintezaar nt available available morning showing nt
available due expiry'
```

```
[23]: # remove hashtags
review_data_cleaned_final = []

for rdcf in review_data_cleaned:
    final_words = rdcf.replace("#", '')
    review_data_cleaned_final.append(final_words)
```

```
[24]: review_data_cleaned_final[7]
```

```
[24]: 'today epi lovekahaiintezaar nt available available morning showing nt available
due expiry'
```

```
[25]: review_data_cleaned_final[57]
```

```
[25]: 'need buy rs premier league pack compulsory watch pl matches already premium
pack activated'
```

```
[ ]:
```

```
[26]: len(review_data_cleaned)
```

```
[26]: 5053
```

```
[27]: """
      corpus = []
      for i in range(len(review_data_cleaned)):
          review = re.sub('[^a-zA-Z]', ' ', review_data_cleaned[i])
          review = ''.join(review)
          corpus.append(review)

      """
```

```
[27]: "\ncorpus = []\nfor i in range(len(review_data_cleaned)):\n    review =\nre.sub('[^a-zA-Z]', ' ', review_data_cleaned[i])\n    review = ''.join(review)\n    corpus.append(review)\n    \n"
```

```
[28]: # Lemmatization

wd = WordNetLemmatizer()

review_data_cleaned_final_output = []
for rdc in review_data_cleaned_final:
    clean_review = " ".join(wd.lemmatize(word) for word in rdc.split())
    review_data_cleaned_final_output.append(clean_review)
```

```
[29]: review_data_cleaned_final_output
```

```
[29]: ['hh',
      '',
      'paymnt premium subscription transaction failed twice received refund one
transaction',
      'currently jio network know whether able watch epl telecasted star spos select
hd',
      'episode sarabhai v sarabhai season downloadable able watch offline please
smthng',
      'able watch latest episode got app allow take screenshot error help resolve
asap',
      'please allow rupay maestro payment gateway premium membership mean paytm work
thru debit card great',
      'today epi lovekahaiintezaar nt available available morning showing nt
available due expiry',
      'hotstarfraud paid subscription july havent received cashback specified hdfc
card',
      'premium acctnt hotstar showing tht premium member u pls chk',
      'seeing blank page term amp condition hdfc bank cashback offer hotstar premium
membership please help',
```

'sir please allow u download video ur app present option allow u dwnld mre video due ltd space',
'hi pl tab spos homepage isl bundesliga search team name stream pls look',
'unable watch star spos select hd live hotstar app even though premium hotstar membership free trial',
'great keep track watch across app web browser expect premium account',
'sir mobile internal disk ltd space ur present option downloading mks u difficult dwnld video serial',
'sir want dwnld episode mahabharata hindi cant due current offline option ltd space mobile',
'original content every season mini series one',
'currently jio network know whether able watch epl telecasted star',
'heard show continued hotstar month removed',
'lovekahaiintezaar preetikaraoisback post promo indifferent u towards',
'black screen premier league match jiotv premier league available',
'already premium subscriber subscription end aug hope able watch first pl game tonight',
'existing premium subscriber need premier league pas incl premium membership default',
'anyone watching game right give feedback streaming quality arslai hotstar',
'requested many time hesitate pls upload season tamizh pechu engal moochu',
'kindly add amp subscription ur subscription service waiting day',
'really want memberahip month billed mistake u help',
'much appreciated someone touch amp resolve issue want membership august',
'sir hotstar working showing location found plz check issue add ghaziabad vaishali sec pin',
'pls offer optional subtitle ur indian regional language film see malayalam marathi amp tamil stuff',
'heard show continued hotstar month removed tv',
'hey u favour leak remaining episode gameofthrones episode thanks advance',
'hey friday time last week gameofthrones episode released idea delay',
'hotstar biggboss episode playing nothing wrong connection hd web video play',
'lovekahaiintezaar preetikaraoisback post promo indifferent u towards show',
'long premier league match replay available streaming till next matchday week',
'atleast sooner maybe guy try add subtitle hindi serial bcoz watch em time',
'account got debited want cancel membership next month much refund getting',
'dear silicon valley giving content available region error episode',
'access hotstar uk please stop censoring show lovekahaiintezaar',
'release torrent day world premiere hbo bc gameofthrones got',
'restaed twice problem still appearing seems affect random episode problem fire stick',
'hey guy showing live premier league match season arsenal chelsea game yesterday',
'hi guy need help bought premium membership impression per month',
'hello receive email regarding month free subscription hotstar premium order motoe plus july',
'ok ip issue mean watch premium content change isp solution',

'hi hotstar many telugu channel v cn watch premium acct amp v need pay extra movie cricket',
 'hi control cast rd pay apps hotstar io android phone using amazon fire stick launched india',
 'app desperately need playback makeover staing option disable cc too flawed',
 'hi happened episode number sarabhai take still locked premium free user way',
 'bought pl season pas validity end th may pl season end may th',
 'watching modern family suddenly jump live stream chelsea v burnley happened time hacked',
 'yesterday tried make payment failed offer disappeared',
 'request kahin hoga hotstar request million fan rajeevkhandelwal',
 'official listed runtime hbo spoilsofwar min actual aired hotstar min',
 'hi renewed premium subscription via itunes hotstar website app saying premium',
 'need buy r premier league pack compulsory watch pl match already premium pack activated',
 'hi team unable watch premium content morning say available country issue till monday',
 'appreciate lead watch sarabhaia v sarabhai ny stream outside sub continent',
 'hi star jalsa used air brilliant show called ganer oparey please made available hotstar',
 'sarabhaivssarabhaitake showing recent episode episode take love',
 'facing issue consent available work app mobile phone data way fix',
 'aww problem ask friend hopefully put subtitle isspyaarkokyanaamdoon one day',
 'facing problem watch content hope subscribe free',
 'offer r month getting reflected membership registration page',
 'subscription pl premium content today purchased membership',
 'order id premium membership cancelled free trail refund paytm wallet',
 'hi star jalsa used air brilliant show called ganer oparey please made available hotstar',
 'facing lot problem watching hotstar amazon fire stick video keep stopping buffering',
 'hello day age best quality video available platform limited p',
 'took premium subscription yet able see prmm content old sta ur trail screen pls help',
 'existing user need unsubscribe subscribe',
 'anyone please suggest good movie genre possible suggest one present hotstar premium',
 'hi tx talking show regional film subtitle option',
 'hotstar free premium delay live free',
 'film swades available video streaming service tried netflix amazonprimevideo hotstar',
 'offer iphone app premium content free offer',
 'dear hotstar happened app tried run amp got message something went wrong',
 'hey hotstar cast video app television allowing reason',
 'team getting content unavailable region hotstar even though premium member',
 'bank account show deduction done paytm',

'hey play hotstar video using player work fine except got specific reason',
 'want fav show top ok atleast take act',
 'give u promos u showing promos tv amp lovekahaiintezaar',
 'even netflix work without issue internet strange hotstar super',
 'episode leaked youtube happening week',
 'jio user alongwith subscribed hotstar premium membership trial still channel',
 'please asap dont want insult show everyone working hard make suc',
 'day day inly bought premium membership currently free tria',
 'hotstar cover match world badminton championship wil cover quaer final
 onward',
 'trying watch long know st half show hotstar',
 'bengali film aguntak ghare baire satyajit ray film channel need subtitle',
 'sure mean actually error amazon fire stick currently tweeting yo',
 'still getting stuck despite running g suggested team never able',
 'give access lakmefashionweek winter festive show catch favourite show live',
 'non premium content working fine tried mine well wife device unable watch
 premium',
 'layman user dont term proxy want',
 'access hotstar uk please stop censoring show lovekahaiintezaar',
 'think got leaked completely stop piracy please avoid',
 'check original i pyar ko kya naam doon hotstar want sarun back new product',
 'got leaked majority site episode',
 'see airplay laptop mirroring mess quality try',
 'seems issue flash player woh working mobile app tx',
 'please increase validity may th keeping promise last day',
 'wish plz put english subtitle ipknd appreciate da',
 'let rephrase exactly written premier league offer co',
 'hotstar order paytm cash txn id working sign sign th',
 'charged subscription following month expect ref',
 'hey receiving message content available region please help',
 'pl game available watch live hotstar app website without premium account',
 'think able see next episode',
 'desperately trying put show plz take actio',
 'thk u sir fr ur prompt reply wish dwnld entire mahabharata hindi video aired
 star',
 'unable play online video google chrome browser version bit',
 'unlikely issue got sta video mobile data work wifi show co',
 'dfb pokal match live hotstar bundesliga match live',
 'got hotstar stream faster hbo every scene exactly shoer runtime',
 'fairness suppo http secure connection video viewing suppo linux',
 'mean aval per month offer today purchased membership month',
 'something went wrong working please try bit error say playi',
 'request kahin hoga hotstar request million fan rajeevkhandelwal',
 'please clarify premier league available jiotv',
 'yeah fine work good uk ad paid content',
 'quick question amp work wifi lan connection kinda dumb',
 'hotstar app loading flashing error please help',

'lovekahaiintezaar preetikaraoisback please air promos tv amp',
'kindly show still lot fan love access',
'subscribed hotstar r paid successfully paytm subscription staed please help',
'thanks hotstar premium membership delay sta show hd',
'please share link watford v liverpool match find app',
'whenever trying play anything spos section show error normal',
'showing html page actual page dont gave internet issue',
'hey great sta telecasting pre post show hotstar',
'hi please confirm premier league match shown live premium membership',
'month pas pl match full premium content month',
'pls takeover football stream india n save u trouble communityshield',
'top tab got rid long time ago please rid suspense ge',
'error tried multiple device look something messed account',
'today staed membership avail thought pl content',
'delay hotstar much delay expecting season',
'include spos competition offer epl',
'got hotstar premium epl delay stas time hotstar',
'hotstar loading normally work vpn kindly help pay service',
'change montage new one plz change',
'seen current game v streaming ok',
'u please respond priority renew premium subscription find',
'im paid user getting live channel work jio sim',
'able watch got even though premium subscription happening folk',
'hey guy way watch hotstar xbox guy coming app anytime',
'heard satellite right film appear hotstar app',
'yes premium membership already watch match tonight right',
'biggbosstamil episode aug amp missing hotstar app',
'come back sarabhai v sarabhai take episode',
'hotstar live stream event iaaf world championship',
'hey eagerly waiting another episode got leak online please oblige',
'guy please stream literally everything seems ruined match',
'order id hotstar premium membership cancelled refund wallet',
'epi available hotstar downloaded morning plz fix',
'yo minute delay broadcast pl even charging premium',
'paid morally allowed watch leaked episode',
'timing got premier season india',
'seem find option sign app amazon fire tv stick',
'u watch channel min delay right watch app website',
'premium member watch leaked episode game throne hotstar today',
'able run got message something went wrong please help',
'u take action channel link',
'sign premium account fire tv stick',
'star spos select hd channel working app',
'premium epsiodes daily episode hindi serial working jio sim',
'website iphone app loading yesterday night site',
'watch pro kabaddi match usa available usa',
'pay hotstar pakistan love service pls help',

'lovekahaiintezaar preetikaraoisback please air promos tv amp',
'season coming onairwithaib',
'downloaded movie subtitle come along',
'kannada menu provided app implemented',
'pls yar star spos sclect dish tv pe kab raha hai',
'watch bigg bos telugu live hotstar plz give link anybody tia',
'adveisement hotstar amazonprimevideo amazon',
'premium member play silicon valley playback_operation_failed help',
'hmm tested even unable stream video content',
'biggbosstelugu hotstar please help live working app',
'hey guy plan leak got episode week wait till monday',
'downloaded video app stored device storage sd card',
'hey chance leaking th episode gots gameofthrones',
'hotstar episode airing tomorrow decided plz air th one',
'work switch wifi staing got video without issue',
'gurgaon need use proxy router reset jugaad solution',
'hey hotstar please add kitani mohabbat hai season please thank',
'take actio',
'let premium customer offline download premium content',
'time something went wrong message watch got please fix soon',
'today cancelled premium membership return money',
'slayer tell exactly written',
'unable watch arslei live stream please',
'july staed premium membership payment done paytm',
'pay per football match',
'guy coming pune viman nagar',
'change montage new one plz change',
'let send screen shot take new screen shot btw',
'staed free trial today avail month offer',
'order id failed got refund one',
'work wifi look work mobile data why',
'yes jio user still working please suggest',
'way control quality content casted chromecast',
'hi cancelled subscription today paytm cash back',
'even try play via jiotv app jiofi',
'available hotstar subscribed content work europe',
'getting arsenal v leicester link anywhere website',
'send link please beg',
'already paying hotstar waiting episode monday help anyone',
'able play video hotstar ezcast plz solve',
'please look registered email id pooja gmail',
'episode chandra nandini telecasted th august',
'please soon possible hotstar',
'need fix isps keen removing proxy',
'help getting content available region morning',
'cancel current pm subscription purchase month',
'getting error app chrome computer help',

'possible play hotstar content subtitle chromecast',
'time today episode big bos tamil get updated hotstar',
'releasing episode game throne season',
'sarabhai v sarabhai coming back episode take',
'many premium show movie suppo offline viewing',
'fight broadcasting hot star',
'going launch usa september year',
'bummer mean watch premium content go',
'expect early release episode next week friday',
'time jamaican final relay shown hotstar',
'someone please share hotstar credential encryption work',
'u take screenshots hotstar allow',
'atleast clarify new season going available',
'telecast sarabhai v sarabhai take stop suddenly',
'dear getting message premier membership',
'u releasing episode game throne season',
'taking forever complete payment hotstar premium',
'expect hotstar incorporated samsung sma tv',
'hey premier league football free hotstar season right',
'kia super league match stream live hotstar today',
'please right allow hotstar canada thank',
'hi everything audible background music except dialogue',
'live streaming premium account',
'hey see available right kick',
'every page renewed premium subscription',
'delay due internet latency yes much',
'video streaming working issue neither app web',
'second delay hotstar premium pl game',
'want watch episode nowww please leak',
'bhabhiji ghar pe hai hotstar near future',
'find watchlist android browser',
'problem seem stream',
'mean unable watch till',
'find link pay via paytm pay',
'app desktop development',
'live streaming tonight fa community shield match',
'premier league live hotstar premium member',
'sarabhaivssarabhai take come episode',
'paid paytm mailed detail',
'please stream p p till',
'site hardly loading expect regualr service',
'available united state waiting',
'access premium content service',
'gameofthrones season episode debut gots',
'going past first load screenshot attached',
'plan suppoing sub title chromecast',
'premium content viewed offline',

'site',
'sure make sure happens others move',
'type nothing happens blank page seen',
'word',
'whole season free',
'please show p gameofthones deserves',
'biggbosstamil hotstar august episode',
'hotstar canada ipkknd',
'separate window pl pas',
'need hotstar subscription got',
'hey epl stream real time min delay',
'channel broadcast premier league',
'long episode',
'hotstar going telecast mayweather v mcgregor',
'isp keen removing proxy',
'hotstar epl channel good alternative',
'find watchlist android browser',
'hey episode svss jul',
'hey yeah put p',
'login account need assistance',
'p compatible version app',
'plz upload star parivar award year',
'synced watch history activity come',
'guy got question pls reply',
'hey auto play episode series',
'error video playing',
'ready got finale atleast',
'download hotstar youtube dailymotion video via',
'android tv app',
'delete hotstar account permanently',
'working kolkata',
'game throne dialogue audible',
'watch opening game hotstar today indian twitter',
'existing user avail',
'link work',
'true content censored',
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'able see live channel mobile',
'redirects hotstar football page',
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'hotstar available',
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'help app called hotstar memory optimisation',
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'plz',
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'adve',
'launching canada',
'cant watch live tv website',
'help app hotstar android medium box',
'download hotstar video android via',
'reinstall',
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'offer',
'issue website amp mobile app',
'getting stuck page',
'epl shown free premium',
'help watch ishqbaaz hotstar',
'ohh whats month offer',
'hotstar working canada',
'give p stream',
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'legitimately watch usa',
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'sent dm still working',
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'hotstar app available p',
'cancel subscription',
'hey leaking',
'bahubali hotstar',
'sent screenshots via dm',
'app xbox',
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telecast ur acc barred',
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'star lot explaining episode leaked day prior official release date amp',
'video quality absolutely horrendous amp laughably pixelated even p look vga
camera stuff',
'leaked online thought fake amp played video true amp star india logo fuck
got',
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sad',
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crushing damm annoyin',
'u got p came across hi def p video yesterday ep doubting power stick hotstar
nw',
'pls create news app unable watch republic channel hotstar interested use time
india app',
'live middle east enter hotstar anymore really sad news loose alot none indian
lover',
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'look irony tilted spoil war amp leaked online already felt shit saw star india
logo',
'irony hotstar creates torrent morgulis campaign reason behind got episode
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'requested enough post pic etc b telecast directly repo account star team post
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 'hate hotstar uploading episode lovekahaiintezaar premium member blaming show
 actor th',
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 'video keep loading forever nothing happens customer suppo
 hotstarstreamingsucks',
 'user charged canceled subscription cancelled subscription august charged',
 'lakin woo kareng nahi gul khan ke chamche jo hai star plus channel wale',
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 'thread indian medium en masse blaming hotstar game throne leak based twitter
 reddit claim without ver',
 'leak watermark bottom right corner gameofthronesleak gameofthrones go',
 'got leaked hotstar oh ok thought leader amp iim professor told security
 technical managerial pr',
 'watched fouh episode feel guilty watched best episode way fuck',
 'uninstalled unfollowed vijaytv vivo kamal stop buying product shown
 biggbosstamil ovi',
 'star india hotstar burn lannister army leaked episode game throne gotleaks',
 'irony got expensive episode watched least quality possible bc leak hi karna
 tha toh hq kae',
 'amazon fire tv stick work hotstar stop promising consumer con',
 'able watch premium show even registering making payment showing registered',
 'wtf wrong one day upload biggbosstelugu early one day upload late maintain
 consistency u idiot',
 'website altbalaji hotstar working edge browser july update currently using
 suface',
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 'hv right voice opinion coz watch tv subscribe premium paying crappy content',
 'feel pity hotstar staed campaign torrent morghullis sta season hotstar
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 'live occasional lag tv show live spoing event absolutely',
 'wohless pay premium money live match run even minute buffer pathetic serv',
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 cake',
 'social street roll torrent morghulis outdoor campaign hotstar gameofthrones
 mumbai delhi amp be',

'wanna complain hotstar opened show working available nothing available',
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 underdogforever gameon',
 'anti torrent ad cringy gameofthronesleak prove torrent around much longer
 hotstar',
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 'real scandal star p print game throne never put hotstar image ind',
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 'stop band baaja badhaiyaan wedding season promo irritating testing patience
 able see old episode',
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 'hey still app sma tv even watch premium content via web browser stupid wa',
 'hotstar hotstar fucking disaster paying torrent far better ur pathetic
 service',
 'month back add tv download movie etc hotstar shit movie put download',
 'received confirmation email hotstar confirming payment successful hotstar
 cheating people',
 'torrent morghulis torrent dohaeris today mean wont air e cancel subscription',
 'well left skip facebook account goina call tyranny',
 'ur hotstar mobile app problem unable watch republic tv last day pl something
 many facing problem',
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 torrent hotstar',
 'dey removed epi frm hotstar wat prblm wid paicular epi lovekahaintazaar',
 'adveisement hotstar done torrent screwed sad feel gutted maker got',
 'hey leaking th episode monday eagerly awaiting low quality work
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 'stopipkndwithoutsarun say big ongoing amp future show web series gul khan',
 'stopipkndwithoutsarun say gul khan want promote abusive vindictive',
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 'wow managed leak latest episode precisely ind channel access parallel u
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 'ur hotstar mobile app problem unable watch republic tv last day pl something
 many facing problem',
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 'u promised month free mship usin citi card u chargin every month subscrib
 pintupajai',
 'paid service pathetic unable watch got app amp web disappointed st improve say

torrentus morghulus',
 'hotstar subscription streaming parallel stopping subscription',
 'one million problem streaming service entire tech still kaafi ridiculous',
 'ur sepfie expe ad music irritating specially one shown dance show',
 'really stupid decision make hotstar people inside india lose alot lover
 follower',
 'mi phone good pay exact amount money regret every time earhonone give',
 'dear show epl live min kick rather buy tv dth pre match build impoant epl',
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 gameofthronesleak',
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 please',
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 actor low trps',
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 waste kaise hone du hd mei',
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 episode',
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 membership',
 'suck big time epl champion kick match n see pre match ceremony fuck u big
 time',
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 'allow u access hotstar delete episode website upload youtube',
 'episode gots got leaked empathise dogged attempt conve consumer using gots
 bait',
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 link go many shitty issue',
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 fluctuating picture quality',
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 released torrent',
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 'response guy bring got episode even american broadcast amp take premium fee
 torrent leak',
 'stream premier league match hotstar asking fuher subscription charge benefit
 premium membership',
 'watch premier league live hotstar pc notification match phone shit together
 nigguh',
 'hi nt able see got episode subscribed fr premium membership say content
 available ur region',
 'nyc',
 'lauded hotstar initiative bringing non pirated got india shit bed skip two day
 wait',
 'hotstar premium user going wait till monday shout torrent morghulis haha flee

fool hotstarmorghulis',
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'hotstar set pace streaming market world fastest growing economy b minute watch
time single day q james foxa',
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rapid',
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region',
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'u spoiling game throne u ur site keep buffering even good internet speed
disappointed',
'add friend tv show premium show list without premium content feel le soul',
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'hey provide crappy p stream leak game throne please paner someone',
'def going watch hotstar kinda feel bad b episode freaking amazing need hd',
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karlo phir dekhna',
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'absolutely unfair guy live streaming iaaf world replay come session paid',
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gameofthronesleak',
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technical managerial problem',
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longlivetorrent',
'hey come last week tonight john oliver available yet today last week mean u
guy forget',
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'hey august th episode hotstar available even hour',
'jittery window site load even linux using chrome o',
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'hotstar streaming absolute worst even stream cricket properly',
'leak timecode bunch watermark awww hell naaahhh',
'hey already watched next episode whole hour stream daddy bitch',
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'le day epl sta seems least bothered single video upcoming season',
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'use image promotional tweet understand spoiler seriously',
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'highlight sho put min highlight please min useless',
'rid cricket select channel show field event',
'hotstar despite serious campaign torrent somehow source leak irony',
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'sup',
'become famous upload episode leak amp world people downlo',
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'hi paid monthly subscription fee still access premium membership deal',
'guy still resolved issue isp providing proper proxy job solve',
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'leaked fucking episode p seven hell answer crime hotstar',
'know episode accidentally leaked star india parent company hotstar',
'stop tellin u coming got theory let watch first monday',
'apparently unaired episode game throne available watermarked hubby excited',
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pic frm hots',
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'literally still torrenting gots legion people willing pay pull damn',
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'show actually stream unlike one buffer buffer',
'anyone know big boy address issue basic yaar',
'app shitty even airplay video tv even make app',
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'hotstar dedicated pl page able view opening match yesterda',
'alone providing episode p v',
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able see old epi',
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rahe gameofthrones',
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non compatibility',
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'subscription three hotstar great show allow offline downloads even prem',
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hi hai hired',
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'oh cable hotstar want pre post race stuff ad free p thats',
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'got leak india unwatchable quality well ev',
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without oviya oviyaarmy',
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'hotstar always b tch esp ur network slow',
'youtube amp advent amazon prime hotstar voot netflix etc killed b wood primary
source',
'lol actually leaked one p game throne deserves',
'star plus hotstar retweet suspend account found edits',
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'see hotstar paying subscription much user pay transaction charge use paytm',
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 'explain shit dont want proxy crap guy solution unsubscribe',
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 'aur game throne ki ad kar na bc torrent zindabad',
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 gandhi',
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'wrst',
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'suddenly football game point premier membership',
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'temme subscribe gotepisode leaked',
'already saw episode torrent website bunch loser cheat people',
'know torrent leak attributed die sure',
'got new episode leaked globally coz hotstar india bihar world',
'absolutely zero tweet gameofthrones come guy hota hai',
'turn leak star entire got e leaked even broadcast u gameofthrones',
'bht hi ghatiya app hai',
'hello video normal',
'leak tossed hotstar entire campaign somebody house',
'unable play desktop play tablet without issue',
'gentle reminder cancel hotstar india monthly plan hbo screw star india
gotleaks starindia',
'working phone laptop wifi connection good',
'became business man',
'offer premium u even read site',
'telugu ki hand ichara hotstar worst quality kosam',
'working content tried znmd malayalam film action hero biju',
'serial already loaded illegally following',
'guy still using flash player html watch p',
'got e quality super bad talking leaked one',
'breaking episode got season leaked online bechara',
'unna p lo ne nalabhai sarlu playback error osthundi kabatti',
'watermark',
'app stas completely say hotstar responding',
'android app crashed twice morning still working amazing app',
'reason go solo adveisement amp losing u p',
'point premium work notworking noresources',
'episode bhai logo spread news torrent zindabad face',
'waiting issue statement condemning game throne hotstar leak',
'haha royal ignore sp n hotstar even moron self respect',
'app available sma tv',
'tweeting ur site buffering middle episode wtf ti suck',

'hotstar app fuckall ok give look hbo ka pata nahi',
'hotstar u suck wintersummer everything still buffering gots',
'fix video player first always keep lagging buffering',
'leaked episode guy saw coming torrentmoghulis',
'cancelled premium within day trial going receive refund',
'wha hotstarwteet anything friday sorry',
'monday morning twitter till telecast got new episode many spoiler around',
'exactly gonna uninstall hotstar unfollow vijay tv',
'hotstar ad hour torrent hehe got trolled pretty bad',
'happening everytime need resta router fail',
'already burning',
'game throne already torrent download torrent',
'lot stuff available spite paying premium',
'trying pay hotstar subscription credit card',
'epi got leaked due indian streaming service throne',
'hotstar jio app full movie find movie want watch',
'hotstar asks say torrent sent regard dracarys',
'haan hotstar pe kharcha kiya hai abb kyu torrent pe dekhe',
'game throne season episode leak twitter directs meanest jibe hotstar',
'hotstar hire guy understand every kind english accent got badsubtitling',
'hotstar premium free trick day new trick credit debit card legit via',
'really annoying hotstar work u lovekahaiintezaar preetikaraoisback',
'gameofthrones season episode leak twitter letting hotstar easy',
'best way watch movie phone away india hotstar',
'well star sued big money shit canned',
'responsible game throne season episode leak repo',
'bad streaming please tell stuff soed subscribe today',
'employee caught u leaking got episode',
'hi downloaded hotstar today r charged try free trial subscription',
'pathetic video streaming hotstar missed episode got hotstar extremely slow',
'one got fanboy girl friend tag gameofthrones leaked episode hotstar hbo',
'tv producer nobody want life',
'hotstar leaked latest episode gameofthrones globally hotstar digital palika bazar',
'added video playlist watch hotstar premium video free app revealed',
'one job literally one job disappointing',
'called live feed exact second delayed transmission',
'well smadns working time cancel premium membership',
'discovered surprised wake',
'missed thank fuck though sense shown hotstar suck',
'charged unable use free trial hotstar hi downloaded hotstar today r',
'episode p choose air p ffs',
'silent prayer came torrent morghulis campaign',
'charged unable use free trial hotstar downloaded hotstar today econsumercou',
'pathetic bundle day highlight min',
'hotstar suck isse pehle log twitter pe live commentary kar lete hai',
'age netflix amazon prime hotstar expect thing',

```
'yass coz hotstar allow capture screen cap',
'stop giving u cheap stuff amp taking money time',
'app functioning properly updated latest version',
'pay hotstar subscription stream quality bad',
'paying ultimately torrent episode anyway',
'nah still delay compared tv broadcast',
'hotstar newbie compared netflix netflix pro segment',
'game throne episode leaked star india watermark',
'epl playback error live epl match getting fixed',
'hbo market hotstar cooked stupid',
'unna p lo ne nalabhai sarlu playback error osthundi kabatti',
'choose plan pay',
'hotstar shit torrent arrive hotstar',
'hotstar guy yoga look fool',
'fan asking last many year please work soon',
'shame ur channel',
'serial number loaded illegally youtube',
'biggbosstamil th aug show yet available hotstar avlo kevalamava irukku',
'hbo valar dohaeris right gameofthrones gotleaks',
'ishqbaaaz episode actually like hotstar messing',
'hotstar jio work asks subscription let see mobodro',
'watch today epi hotstar premium wtf lovekahaiintezaar',
'happy quality got print compare ur show',
'expect watch got s phone tablet laptop sad',
'pls compare cricket fabulous sarabhais p',
'recalling senseless ad yes friend torrentz exists',
'biggbosstamil hotstar august episode',
'hmm keep uploading highlight live paid',
'gmail c',
'game throne season episode leak twitter directs meanest jibe hotstar',
'much legal streaming adves joke star india',
...]
```

```
[30]: review_data['clean_review'] = review_data_cleaned_final_output
```

```
C:\Users\Lenovo\AppData\Local\Temp\ipykernel_11216\3331724023.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy
review_data['clean_review'] = review_data_cleaned_final_output
```

```
[31]: review_data.head()
```

```
[31]:
```

	Reviews	Source	Sentiment	\
0	hh	0	Negative	
1	no	0	Negative	
2	@hotstar_helps during paymnt for premium subsc...	1	Negative	
3	@hotstartweets i am currently on jio network a...	1	Negative	
4	@hotstartweets the episodes of sarabhai vs sar...	1	Negative	

	clean_review
0	hh
1	
2	paymnt premium subscription transaction failed...
3	currently jio network know whether able watch ...
4	episode sarabhai v sarabhai season downloadabl...

```
[32]: # split the data into training and test

from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test = train_test_split(review_data['clean_review'],
                                                    review_data['Sentiment'], test_size=0.2,
                                                    random_state=42,
                                                    stratify=review_data['Sentiment'])
```

```
[33]: print(x_train.shape, x_test.shape, y_train.shape, y_test.shape)

(4042,) (1011,) (4042,) (1011,)
```

4 Feature Extraction - Bag of Words

```
[39]: # vectorize the text data using CountVectorizer

vectorizer = CountVectorizer(binary=True).fit(x_train)
x_train_vectorized = vectorizer.transform(x_train)
x_test_vectorized = vectorizer.transform(x_test)
```

```
[40]: x_train
```

```
[40]: 2669          good aap
4312  suddenly stas buffering n buffering n bufferin...
2512  watch bengaluru bull v telugu titan live star ...
2722          osam app
3254          easy use

...

350          app working
4952  glad waited watched latest gameofthrones episo...
```

```
958      called live feed exact second delayed transmis...
67       order id premium membership cancelled free tra...
749      use image promotional tweet understand spoiler...
Name: clean_review, Length: 4042, dtype: object
```

```
[41]: x_train_vectorized
```

```
[41]: <4042x4975 sparse matrix of type '<class 'numpy.int64'>'
      with 24692 stored elements in Compressed Sparse Row format>
```

```
[42]: print(vectorizer.get_feature_names())
```

```
['aa', 'aaaaaand', 'aaaaah', 'aab', 'aadat', 'aadhaar', 'aadhaarmemes', 'aage',
'aaj', 'aajata', 'aalaporaantamizhan', 'aap', 'aapka', 'aapke', 'aaps',
'aarambh', 'aasha', 'aata', 'aate', 'aaya', 'ab', 'abb', 'abdul', 'abe',
'abeer', 'abeergiri', 'abhay', 'abhi', 'abki', 'able', 'abong', 'abruptly',
'absolute', 'absolutely', 'absorbs', 'abt', 'abusive', 'acc', 'accent',
'accepts', 'access', 'accessible', 'acch', 'accha', 'accidentally', 'acct',
'according', 'account', 'acha', 'achha', 'achi', 'achoda', 'across', 'act',
'acted', 'acting', 'actio', 'action', 'activated', 'activity', 'actor',
'actress', 'actual', 'actually', 'ad', 'ada', 'add', 'adddds', 'added',
'addicted', 'addictionproblems', 'adding', 'address', 'addressed', 'addressing',
'adi', 'adiripovali', 'adni', 'adona', 'adorable', 'adult', 'adv', 'advance',
'advanced', 'advantage', 'advay', 'advaysinghraizada', 'adve', 'advised',
'advisement', 'advisements', 'advisers', 'advising', 'advent',
'adventurous', 'adves', 'ae', 'aexcellent', 'afcos', 'affect', 'affected',
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'aina', 'air', 'aired', 'airing', 'airplay', 'aisa', 'aise', 'aist', 'aists',
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'altbalaji', 'alternate', 'alternative', 'although', 'always', 'alwz', 'ama',
'amagement', 'amaizing', 'amasing', 'amazing', 'amazings', 'amazon',
'amazonprime', 'amazonprimevideo', 'amazonvideo', 'ambeer', 'ameri', 'america',
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'annayya', 'annayyaa', 'anni', 'anniyah', 'announce', 'annoyin', 'annoying',
'another', 'ansari', 'answer', 'answered', 'ante', 'anthem', 'anthikad',
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```

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 'attack', 'attaining', 'attempt', 'attract', 'au', 'audacity', 'audible',
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 'authority', 'auto', 'automatically', 'avail', 'availabl', 'available', 'aval',
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 'believe', 'bend', 'benefit', 'bengali', 'bengalu', 'bengaluru', 'bengalvup',
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 'betterrrrrrr', 'bettr', 'bewkoof', 'bez', 'bfore', 'bfrng', 'bgms', 'bgr',
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```
C:\Users\Lenovo\anaconda3\lib\site-packages\sklearn\utils\deprecation.py:87:
FutureWarning: Function get_feature_names is deprecated; get_feature_names is
deprecated in 1.0 and will be removed in 1.2. Please use get_feature_names_out
instead.
```

```
warnings.warn(msg, category=FutureWarning)
```

```
[43]: pd.DataFrame(x_train_vectorized.toarray())
```

```
[43]:
```

	0	1	2	3	4	5	6	7	8	9	...	4965	\
0	0	0	0	0	0	0	0	0	0	0	...	0	
1	0	0	0	0	0	0	0	0	0	0	...	0	
2	0	0	0	0	0	0	0	0	0	0	...	0	
3	0	0	0	0	0	0	0	0	0	0	...	0	
4	0	0	0	0	0	0	0	0	0	0	...	0	
...	...	...	...	...	...	...	...	...	...	...	...	...	
4037	0	0	0	0	0	0	0	0	0	0	...	0	
4038	0	0	0	0	0	0	0	0	0	0	...	0	
4039	0	0	0	0	0	0	0	0	0	0	...	0	
4040	0	0	0	0	0	0	0	0	0	0	...	0	
4041	0	0	0	0	0	0	0	0	0	0	...	0	
...	...	...	...	...	...	...	...	...	...	...	...	...	
4966	4967	4968	4969	4970	4971	4972	4973	4974	...	...	...	...	

0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
...	...	...	...	...	...	...	...	...	...
4037	0	0	0	0	0	0	0	0	0
4038	0	0	0	0	0	0	0	0	0
4039	0	0	0	0	0	0	0	0	0
4040	0	0	0	0	0	0	0	0	0
4041	0	0	0	0	0	0	0	0	0

[4042 rows x 4975 columns]

```
[44]: pd.DataFrame(x_test_vectorized.toarray())
```

```
[44]:
```

	0	1	2	3	4	5	6	7	8	9	...	4965	\
0	0	0	0	0	0	0	0	0	0	0	...	0	
1	0	0	0	0	0	0	0	0	0	0	...	0	
2	0	0	0	0	0	0	0	0	0	0	...	0	
3	0	0	0	0	0	0	0	0	0	0	...	0	
4	0	0	0	0	0	0	0	0	0	0	...	0	
...	...	...	...	...	...	...	...	...	...	...	...	...	
1006	0	0	0	0	0	0	0	0	0	0	...	0	
1007	0	0	0	0	0	0	0	0	0	0	...	0	
1008	0	0	0	0	0	0	0	0	0	0	...	0	
1009	0	0	0	0	0	0	0	0	0	0	...	0	
1010	0	0	0	0	0	0	0	0	0	0	...	0	

	4966	4967	4968	4969	4970	4971	4972	4973	4974
0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
...	...	...	...	...	...	...	...	...	...
1006	0	0	0	0	0	0	0	0	0
1007	0	0	0	0	0	0	0	0	0
1008	0	0	0	0	0	0	0	0	0
1009	0	0	0	0	0	0	0	0	0
1010	0	0	0	0	0	0	0	0	0

[1011 rows x 4975 columns]

5 Model Building

5.1 from sklearn.naive_bayes import MultinomialNB

```
[46]: naive_bayes_multi = MultinomialNB().fit(x_train_vectorized, y_train)
```

```
[47]: print(naive_bayes_multi.score(x_train_vectorized, y_train))
      print()
      print(naive_bayes_multi.score(x_test_vectorized, y_test))
```

0.880257298367145

0.7161226508407518

```
[49]: naive_bayes_multi.coef_
```

```
C:\Users\Lenovo\anaconda3\lib\site-packages\sklearn\utils\deprecation.py:103:
FutureWarning: Attribute `coef_` was deprecated in version 0.24 and will be
removed in 1.1 (renaming of 0.26).
  warnings.warn(msg, category=FutureWarning)
```

```
[49]: array([[ -8.83789893, -9.53104611, -9.53104611, ..., -8.83789893,
          -8.83789893, -8.83789893],
          [-9.64134326, -8.94819608, -8.94819608, ..., -9.64134326,
          -9.64134326, -9.64134326],
          [-9.25416585, -9.25416585, -9.25416585, ..., -9.25416585,
          -9.25416585, -9.25416585]])
```

```
[50]: predict_train = naive_bayes_multi.predict(x_train_vectorized)
      predict_test = naive_bayes_multi.predict(x_test_vectorized)
```

```
[51]: predict_train
```

```
[51]: array(['Positive', 'Negative', 'Neutral', ..., 'Negative', 'Negative',
          'Negative'], dtype='<U8')
```

```
[52]: predict_test
```

```
[52]: array(['Negative', 'Positive', 'Positive', ..., 'Neutral', 'Neutral',
          'Neutral'], dtype='<U8')
```

```
[53]: def get_num(data):
      data_new = pd.DataFrame(data, columns=['Sentiment'])
      data_new['y_label'] = np.where(data_new['Sentiment']=='Neutral',0,
                                   np.
      ↪where(data_new['Sentiment']=='Positive',1,2))
      return data_new
```

```
[54]: y_train_new = get_num(y_train)
      y_test_new = get_num(y_test)
      predict_train_new = get_num(predict_train)
      predict_test_new = get_num(predict_test)
```

```
[58]: predict_test_new
```

```
[58]:      Sentiment  y_label
      0      Negative      2
      1      Positive      1
      2      Positive      1
      3      Neutral      0
      4      Neutral      0
      ...      ...      ...
    1006      Neutral      0
    1007      Positive      1
    1008      Neutral      0
    1009      Neutral      0
    1010      Neutral      0
```

[1011 rows x 2 columns]

```
[59]: print(classification_report(y_train_new['y_label'],predict_train_new['y_label'],
      ↪))
      print()
      print(classification_report(y_test_new['y_label'],predict_test_new['y_label'] ))
```

	precision	recall	f1-score	support
0	0.91	0.82	0.86	1390
1	0.90	0.91	0.91	1386
2	0.83	0.91	0.87	1266
accuracy			0.88	4042
macro avg	0.88	0.88	0.88	4042
weighted avg	0.88	0.88	0.88	4042

	precision	recall	f1-score	support
0	0.68	0.66	0.67	348
1	0.80	0.73	0.76	347
2	0.68	0.76	0.72	316
accuracy			0.72	1011
macro avg	0.72	0.72	0.72	1011
weighted avg	0.72	0.72	0.72	1011

```
[60]: print(accuracy_score(y_train_new['y_label'],predict_train_new['y_label'] ))
print()
print(accuracy_score(y_test_new['y_label'],predict_test_new['y_label'] ))
```

0.880257298367145

0.7161226508407518

6 RandomForestClassifier

```
[62]: rf_model = RandomForestClassifier().fit(x_train_vectorized, y_train)
```

```
[63]: print(rf_model.score(x_train_vectorized, y_train))
print()
print(rf_model.score(x_test_vectorized, y_test))
```

0.9903513112320633

0.7082096933728981

```
[64]: predict_train1 = rf_model.predict(x_train_vectorized)
predict_test1 = rf_model.predict(x_test_vectorized)
```

```
[65]: def get_num(data):
    data_new = pd.DataFrame(data, columns=['Sentiment'])
    data_new['y_label'] = np.where(data_new['Sentiment']=='Neutral',0,
                                   np.
    ↪where(data_new['Sentiment']=='Positive',1,2))
    return data_new
```

```
[69]: y_train_new1 = get_num(y_train)
y_test_new1 = get_num(y_test)
predict_train_new1 = get_num(predict_train1)
predict_test_new1 = get_num(predict_test1)
```

```
[70]: print(classification_report(y_train_new1['y_label'],predict_train_new1['y_label'],
    ↪))
print()
print(classification_report(y_test_new1['y_label'],predict_test_new1['y_label'],
    ↪))
```

	precision	recall	f1-score	support
0	0.99	0.99	0.99	1390
1	0.99	0.99	0.99	1386

	2	1.00	0.99	0.99	1266
accuracy				0.99	4042
macro avg		0.99	0.99	0.99	4042
weighted avg		0.99	0.99	0.99	4042

		precision	recall	f1-score	support
	0	0.67	0.72	0.70	348
	1	0.73	0.75	0.74	347
	2	0.73	0.64	0.68	316
accuracy				0.71	1011
macro avg		0.71	0.71	0.71	1011
weighted avg		0.71	0.71	0.71	1011

```
[71]: print(accuracy_score(y_train_new1['y_label'],predict_train_new1['y_label'] ))
print()
print(accuracy_score(y_test_new1['y_label'],predict_test_new1['y_label'] ))
```

0.9903513112320633

0.7082096933728981

7 apply k-fold method

```
[74]: from sklearn.model_selection import cross_val_score
training_accuracy = cross_val_score(rf_model, x_train_vectorized, y_train,
    ↪cv=10)
print(training_accuracy.mean())
```

0.7377545532331011

8 XGBoostClassifier

```
[76]: def get_num(data):
    data_new = pd.DataFrame(data, columns=['Sentiment'])
    data_new['y_label'] = np.where(data_new['Sentiment']=='Neutral',0,
    np.
    ↪where(data_new['Sentiment']=='Positive',1,2))
    return data_new
```

```
[77]: y_train_new2 = get_num(y_train)
y_test_new2 = get_num(y_test)
```

```
[79]: y_train_new2
```

```
[79]:      Sentiment  y_label
2669  Positive      1
4312  Negative      2
2512   Neutral      0
2722  Positive      1
3254  Positive      1
...      ...      ...
350    Negative      2
4952  Positive      1
958    Negative      2
67     Negative      2
749    Negative      2

[4042 rows x 2 columns]
```

```
[82]: xgboost = XGBClassifier().fit(x_train_vectorized, y_train_new2['y_label'])
```

[21:36:59] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767: Parameters: { "min_df" } are not used.

```
[83]: print(xgboost.score(x_train_vectorized, y_train_new2['y_label']))
print()
print(xgboost.score(x_test_vectorized, y_test_new2['y_label']))
```

0.839188520534389

0.7181008902077152

```
[84]: from sklearn.model_selection import cross_val_score
training_accuracy = cross_val_score(xgboost, x_train_vectorized,
    ↪ y_train_new2['y_label'], cv=10)
print(training_accuracy.mean())
```

[21:38:48] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767: Parameters: { "min_df" } are not used.

[21:38:49] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767: Parameters: { "min_df" } are not used.

[21:38:50] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767: Parameters: { "min_df" } are not used.

```
[21:38:52] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-  
group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767:  
Parameters: { "min_df" } are not used.
```

```
[21:38:53] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-  
group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767:  
Parameters: { "min_df" } are not used.
```

```
[21:38:55] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-  
group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767:  
Parameters: { "min_df" } are not used.
```

```
[21:38:56] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-  
group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767:  
Parameters: { "min_df" } are not used.
```

```
[21:38:57] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-  
group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767:  
Parameters: { "min_df" } are not used.
```

```
[21:38:59] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-  
group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767:  
Parameters: { "min_df" } are not used.
```

```
[21:39:00] WARNING: C:/buildkite-agent/builds/buildkite-windows-cpu-autoscaling-  
group-i-030221e36e1a46bfb-1/xgboost/xgboost-ci-windows/src/learner.cc:767:  
Parameters: { "min_df" } are not used.
```

0.7387373181762621

9 Feature Extraction - Term Frequency - Inverse Documents Frequency (TF-IDF)

```
[85]: # vectorize the text data using TfidfVectorizer  
tf_idf = TfidfVectorizer().fit(x_train)  
x_train_tf_idf = tf_idf.transform(x_train)  
x_test_tf_idf = tf_idf.transform(x_test)
```

```
[86]: pd.DataFrame(x_test_tf_idf.toarray())
```

```
[86]:
```

	0	1	2	3	4	5	6	7	8	9	...	4965	\
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	

4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
...	...	...	...	...	...	...	...	...	...	...	...	...
1006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
1007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
1008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
1009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
1010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0

	4966	4967	4968	4969	4970	4971	4972	4973	4974
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
...	...	...	...	...	...	...	...	...	...
1006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[1011 rows x 4975 columns]

```
[88]: x_test_tf_idf.toarray()
```

```
[88]: array([[0., 0., 0., ..., 0., 0., 0.],
            [0., 0., 0., ..., 0., 0., 0.],
            [0., 0., 0., ..., 0., 0., 0.],
            ...,
            [0., 0., 0., ..., 0., 0., 0.],
            [0., 0., 0., ..., 0., 0., 0.],
            [0., 0., 0., ..., 0., 0., 0.]])
```

```
[89]: xgboost = XGBClassifier().fit(x_train_tf_idf, y_train_new2['y_label'])
```

```
[90]: print(xgboost.score(x_train_tf_idf, y_train_new2['y_label']))
print()
print(xgboost.score(x_test_tf_idf, y_test_new2['y_label']))
```

0.883968332508659

0.7141444114737884

```
[ ]:
```

10 Analysis by using WordCloud

```
[91]: review_data.head()
```

```
[91]:
```

	Reviews	Source	Sentiment	\
0	hh	0	Negative	
1	no	0	Negative	
2	@hotstar_helps during paymnt for premium subsc...	1	Negative	
3	@hotstartweets i am currently on jio network a...	1	Negative	
4	@hotstartweets the episodes of sarabhai vs sar...	1	Negative	


```
clean_review
```

0	hh
1	
2	paymnt premium subscription transaction failed...
3	currently jio network know whether able watch ...
4	episode sarabhai v sarabhai season downloadabl...

```
[92]: review_data.Sentiment.value_counts()
```

```
[92]: Neutral      1738
      Positive     1733
      Negative     1582
      Name: Sentiment, dtype: int64
```

```
[93]: positive_review =
      ↪review_data[review_data['Sentiment']=='Positive']['clean_review']
negative_review =
      ↪review_data[review_data['Sentiment']=='Negative']['clean_review']
neutral_review =
      ↪review_data[review_data['Sentiment']=='Neutral']['clean_review']
```

```
[96]: positive_review.shape, negative_review.shape, neutral_review.shape
```

```
[96]: ((1733,), (1582,), (1738,))
```

```
[97]: pos_data_token = [nltk.word_tokenize(rvw) for rvw in positive_review]
neg_data_token = [nltk.word_tokenize(rvw) for rvw in negative_review]
neu_data_token = [nltk.word_tokenize(rvw) for rvw in neutral_review]
```

```
[99]: neu_data_token
```

```
[99]: [[],
      ['speed'],
      ['sss'],
      ['sunni'],
      ['app'],
```

['thank'],
['ufgj'],
['vipul'],
['fghk'],
['god'],
['att', 'aa'],
['better'],
['crazy'],
['hank'],
['ok'],
['kiduve'],
['krunal'],
['raju'],
['mash'],
['mmmmmm'],
['ok'],
['peasad'],
['rakesh'],
['rayudu'],
['salmon'],
['serial'],
['shahal'],
['thanks'],
[],
['average'],
['cleay'],
['cricket'],
['forever'],
['hotstar'],
['ok'],
['ok'],
['kp', 'joel'],
['live', 'tv'],
['love'],
['machand'],
['must'],
['nit', 'bad'],
['word'],
['bad'],
['yet'],
['nothing'],
['oooooooo'],
['praveen'],
['quality'],
['sahi', 'hi'],
['sandeep'],
['sirraaa'],

['sonysab'],
['subhash'],
['tv', 'show'],
['vismaya'],
['well'],
[],
['chuyyapa'],
['download'],
['hawa', 'xaw'],
['itds', 'okk'],
['word'],
['nnnnnnnn'],
['pudikale'],
['raj', 'bhai'],
['semmaiya'],
['shailesh'],
['thankyou'],
['abhi', 'abhi'],
['buffering'],
['chhota', 'tv'],
['hostar'],
['hq', 'video'],
['okay'],
['likhith'],
['katrotiya'],
['nyxxx', 'apk'],
['ooooooooo'],
['rebha', 'da'],
['siraa', 'app'],
['sk', 'kamran'],
['may', 'ad'],
['sumanth'],
['thank'],
['adona', 'biju'],
['android', 'tv'],
['pandey'],
['bad'],
['ok', 'hai', 'app'],
['saying', 'hai'],
['suggestion'],
['syedtabrez'],
['thank', 'full'],
['think'],
['better', 'work'],
['chettha', 'app'],
['many', 'ad'],
['know'],

['ok', 'hat'],
['krishna', 'jee'],
['mayur', 'patil'],
['much', 'better'],
['need', 'minor'],
['republic', 'tv'],
['goof'],
['vinod', 'kumar'],
['abhay', 'pratap'],
['arvind', 'kumar'],
['ashok', 'panwar'],
['erangi', 'poday'],
['good', 'morning'],
['ich', 'liebe', 'e'],
['jilla', 'madhan'],
['lokes', 'kumar'],
['manish', 'yadav'],
['md', 'javed', 'hii'],
['meru', 'bharvad'],
['mooment', 'miss'],
['sagor', 'halder'],
['top', 'feature'],
['yesobu', 'yarra'],
['arslaan', 'liked'],
['brajesh', 'verma'],
['good', 'night', 'fr'],
['word'],
['israil', 'shaikh'],
['fine', 'app'],
['happened'],
['imp'],
['kuldeep', 'singh'],
['santosh', 'mitar'],
['swipe', 'seek'],
['funny'],
['tv', 'movie'],
['uttam', 'samanta'],
['vinod', 'beniwal'],
['biggbosstelugu'],
['hahahahahaahah'],
['hmm', 'koyappalla'],
['see', 'movie'],
['md', 'soheal', 'alam'],
['mohit', 'n', 'gahlot'],
['mst', 'app', 'h', 'bidu'],
['prodyut', 'sarkar'],
['rokheda', 'mondal'],

['tell', 'grb'],
['well', 'well', 'well'],
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 ['hotstar',
 'wale',
 'ke',
 'aage',
 'itna',
 'bheek',
 'manga',
 'na',
 'humne',
 'bc',
 'ek',
 'hi',
 'msg',
 'chipkaye',
 'jaarha',
 'hai'],
 ['go', 'yoddhas', 'win', 'world', 'humhaiyodha', 'lepanga'],
 ['ready', 'cheer', 'lepanga', 'humhaiyodha'],
 ['yaaayy', 'time', 'suppo', 'cheer', 'favorite', 'team'],
 ['check',
 'tanha',
 'friendship',
 'day',
 'hotstar',
 'best',
 'msg',
 'friendship',
 'day',
 'come',
 'best',
 'man'],
 ['check',
 'kya',
 'qusoor',
 'hai',
 'amla',
 'ka',
 'hotstar',
 'mannu',
 'chinese',
 'food',
 'kyaqusoorhaiamalaka',
 'amla'],
 ['episode', 'hotstar', 'watch', 'comment', 'lovekahaiintezaar'],
 ['click',

'selfie',
 'watching',
 'today',
 'match',
 'hotstar',
 'tnplselfiepulla',
 'doublethegethu'],
 ['pls', 'bring', 'back', 'sarun', 'together', 'newsarunshow'],
 ['teen',
 'wolf',
 'season',
 'streamdor',
 'moviezoot',
 'boxtv',
 'hotstar',
 'watchcaoonsononline',
 'caoonson',
 'teen'],
 ['happy', 'raksha', 'bandhan', 'starindia', 'indiatoday', 'toitv'],
 ['check',
 'original',
 'i',
 'pyar',
 'ko',
 'kya',
 'naam',
 'doon',
 'hotstar',
 'want',
 'sarun',
 'back',
 'rplus',
 'new',
 'pro'],
 ['download', 'hotstar', 'tv', 'app', 'showing', 'sony', 'six'],
 ['watch',
 'comment',
 'isspyaarkokyanaamdoon',
 'episode',
 'hotstar',
 'barunsobti',
 'shivanitomar'],
 ['ipkknd', 'hot', 'sanayairani', 'want'],
 ['hey', 'everyone', 'hd', 'link', 'missed', 'yesterday', 'award'],
 ['watch', 'today', 'episode', 'lovekahaiintezaar', 'forget', 'n', 'coment'],
 ['forget',
 'watch',

```

'episode',
'ipkknd',
'hotstar',
'watching',
'tv',
'screen'],
['super',
'voice',
'epi',
'download',
'amp',
'watch',
'full',
'episode',
'hotstar',
'h'],
...]

```

```

[100]: wordcloud_pos = WordCloud(background_color='blue', max_words=200,
    ↪max_font_size=40,
    scale=3, random_state=10).generate(str(pos_data_token))

wordcloud_neg = WordCloud(background_color='white', max_words=200,
    ↪max_font_size=40,
    scale=3, random_state=10).generate(str(neg_data_token))

wordcloud_neu = WordCloud(background_color='black', max_words=200,
    ↪max_font_size=40,
    scale=3, random_state=10).generate(str(neu_data_token))

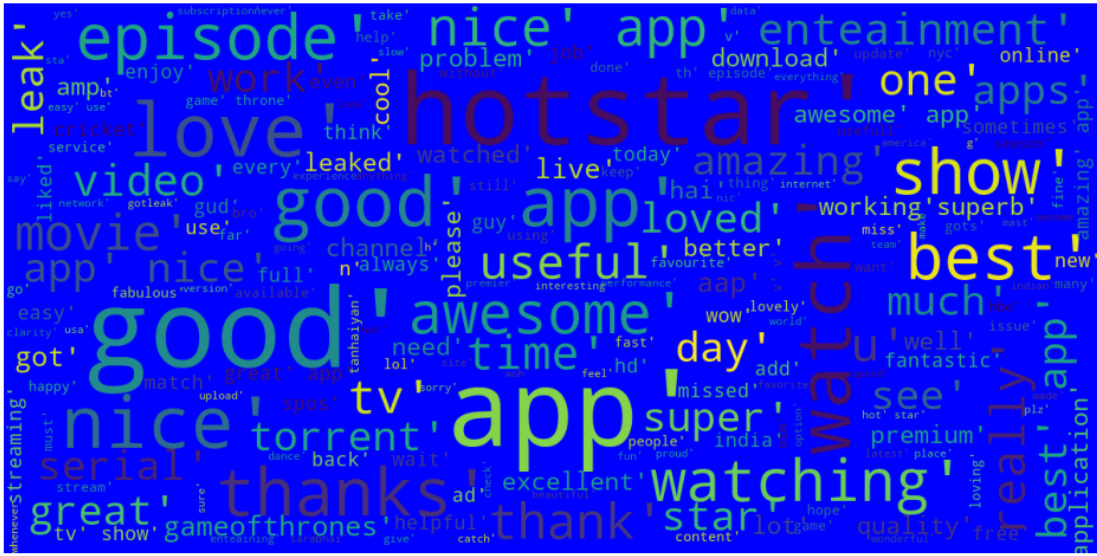
```

```

[102]: import matplotlib.pyplot as plt
fig = plt.figure(1, figsize=(12,12))
plt.axis('off')
plt.imshow(wordcloud_pos)
plt.title("Positive Review", size=20)
plt.show()

```

Positive Review



```
[103]: import matplotlib.pyplot as plt
fig = plt.figure(1, figsize=(12,12))
plt.axis('off')
plt.imshow(wordcloud_neg)
plt.title("Negative Review", size=20)
plt.show()
```

Negative Review




```

0                                     hh
1
2  paymnt premium subscription transaction failed...
3  currently jio network know whether able watch ...
4  episode sarabhai v sarabhai season downloadabl...

```

```
[119]: review_data1 = review_data[['clean_review', 'Sentiment']]
```

```
[120]: review_data1.head()
```

```

[120]:          clean_review Sentiment
0                                     hh  Negative
1                                     Negative
2  paymnt premium subscription transaction failed...  Negative
3  currently jio network know whether able watch ...  Negative
4  episode sarabhai v sarabhai season downloadabl...  Negative

```

```

[121]: review_data1['Sentiment'] = review_data1['Sentiment'].astype('category')
review_data1['Sentiment'] = review_data1['Sentiment'].cat.codes
review_data1['Sentiment'].value_counts()

```

C:\Users\Lenovo\AppData\Local\Temp\ipykernel_11216\2624856155.py:1:

SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
review_data1['Sentiment'] = review_data1['Sentiment'].astype('category')
```

C:\Users\Lenovo\AppData\Local\Temp\ipykernel_11216\2624856155.py:2:

SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
review_data1['Sentiment'] = review_data1['Sentiment'].cat.codes
```

```

[121]: 1    1738
      2    1733
      0    1582
      Name: Sentiment, dtype: int64

```

```
[122]: review_data1.head()
```

```

[122]:          clean_review Sentiment
0                                     hh          0

```

1		0
2	paymnt premium subscription transaction failed...	0
3	currently jio network know whether able watch ...	0
4	episode sarabhai v sarabhai season downloadabl...	0

```
[125]: x = review_data1.iloc[:,0:1]
      y = review_data1.iloc[:, -1]
```

```
[131]: x.head()
```

```
[131]:          clean_review
0                hh
1
2 paymnt premium subscription transaction failed...
3 currently jio network know whether able watch ...
4 episode sarabhai v sarabhai season downloadabl...
```

```
[127]: y.head()
```

```
[127]: 0    0
      1    0
      2    0
      3    0
      4    0
      Name: Sentiment, dtype: int8
```

```
[138]: y.value_counts()
```

```
[138]: 1    1738
      2    1733
      0    1582
      Name: Sentiment, dtype: int64
```

```
[130]: x_vec
```

```
[130]: array([[1]], dtype=int64)
```

```
[132]: # split the data into training and test
      from sklearn.model_selection import train_test_split
      x_train, x_test, y_train, y_test = train_test_split(x,
                                                         y, test_size=0.2,
                                                         random_state=42,
                                                         stratify=y)
```

```
[133]: x_train
```

```
[133]:
clean_review
2669          good aap
4312  suddenly stas buffering n buffering n bufferin...
2512  watch bengaluru bull v telugu titan live star ...
2722          osam app
3254          easy use
...
350          app working
4952  glad waited watched latest gameofthrones episo...
958   called live feed exact second delayed transmis...
67    order id premium membership cancelled free tra...
749   use image promotional tweet understand spoiler...

[4042 rows x 1 columns]
```

```
[139]: x.columns
```

```
[139]: Index(['clean_review'], dtype='object')
```

```
[ ]:
```

```
[ ]:
```

```
[141]: bow = CountVectorizer()
x_bow = bow.fit_transform(x['clean_review']).toarray()
```

```
[144]: x_bow1=pd.DataFrame(x_bow)
x_bow1.head()
```

```
[144]:
```

	0	1	2	3	4	5	6	7	8	9	...	5593	\
0	0	0	0	0	0	0	0	0	0	0	0	...	0
1	0	0	0	0	0	0	0	0	0	0	0	...	0
2	0	0	0	0	0	0	0	0	0	0	0	...	0
3	0	0	0	0	0	0	0	0	0	0	0	...	0
4	0	0	0	0	0	0	0	0	0	0	0	...	0

	5594	5595	5596	5597	5598	5599	5600	5601	5602
0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0

```

[5 rows x 5603 columns]
```

```
[148]: x_bow1.shape, y.shape
```

```
[148]: ((5053, 5603), (5053,))
```

```
[134]: # vectorize the text data using CountVectorizer
#vectorizer = CountVectorizer(binary=True).fit(x_train)
#x_vec = vectorizer.fit_transform(x).toarray()

#x_train_vectorized = vectorizer.transform(x_train)
#x_test_vectorized = vectorizer.transform(x_test)
```

```
[135]: #x_train_vectorized
```

```
[135]: <1x1 sparse matrix of type '<class 'numpy.int64'>'
      with 1 stored elements in Compressed Sparse Row format>
```

```
[136]: #x_train = pd.DataFrame(x_train_vectorized.toarray())
#x_test = pd.DataFrame(x_test_vectorized.toarray())
```

```
[137]: #x_train.shape, x_test.shape, y_train_new2['y_label'].shape,
      ↪ y_test_new2['y_label'].shape
```

```
[137]: ((1, 1), (1, 1), (4042,), (1011,))
```

```
[ ]: model = Sequential()
model.add(Dense(64, activation='relu', input_dim=5603))
model.add(Dense(8, activation='relu'))
model.add(Dense(3, activation='softmax'))
model.compile(optimizer='adam', loss=keras.losses.
      ↪ SparseCategoricalCrossentropy(from_logits=True),
      metrics=['accuracy'])
model.fit(x_bow1, y, epochs=100, batch_size=32, validation_split=0.2)
```

Epoch 1/100

```
C:\Users\Lenovo\anaconda3\lib\site-packages\keras\backend.py:5612: UserWarning:
"`sparse_categorical_crossentropy` received `from_logits=True`, but the `output`
argument was produced by a Softmax activation and thus does not represent
logits. Was this intended?
```

```
    output, from_logits = _get_logits(
```

```
124/127 [=====>.] - ETA: 0s - loss: 0.9205 - accuracy:
0.6663
```

```
C:\Users\Lenovo\anaconda3\lib\site-packages\keras\backend.py:5612: UserWarning:
"`sparse_categorical_crossentropy` received `from_logits=True`, but the `output`
argument was produced by a Softmax activation and thus does not represent
logits. Was this intended?
```

```
    output, from_logits = _get_logits(
```

```
127/127 [=====] - 5s 20ms/step - loss: 0.9159 -
```

accuracy: 0.6672 - val_loss: 1.0320 - val_accuracy: 0.5529
Epoch 2/100
127/127 [=====] - 2s 13ms/step - loss: 0.4504 -
accuracy: 0.8488 - val_loss: 1.4993 - val_accuracy: 0.5410
Epoch 3/100
127/127 [=====] - 2s 16ms/step - loss: 0.2669 -
accuracy: 0.9226 - val_loss: 1.7130 - val_accuracy: 0.5460
Epoch 4/100
127/127 [=====] - 2s 13ms/step - loss: 0.1814 -
accuracy: 0.9466 - val_loss: 1.8561 - val_accuracy: 0.5598
Epoch 5/100
127/127 [=====] - 2s 14ms/step - loss: 0.1387 -
accuracy: 0.9542 - val_loss: 2.0281 - val_accuracy: 0.5490
Epoch 6/100
127/127 [=====] - 2s 17ms/step - loss: 0.1113 -
accuracy: 0.9641 - val_loss: 2.2699 - val_accuracy: 0.5391
Epoch 7/100
127/127 [=====] - 2s 17ms/step - loss: 0.0934 -
accuracy: 0.9686 - val_loss: 2.4338 - val_accuracy: 0.5371
Epoch 8/100
127/127 [=====] - 2s 18ms/step - loss: 0.0813 -
accuracy: 0.9708 - val_loss: 2.4830 - val_accuracy: 0.5410
Epoch 9/100
127/127 [=====] - 3s 24ms/step - loss: 0.0734 -
accuracy: 0.9760 - val_loss: 2.6324 - val_accuracy: 0.5420
Epoch 10/100
127/127 [=====] - 3s 20ms/step - loss: 0.0692 -
accuracy: 0.9745 - val_loss: 2.7559 - val_accuracy: 0.5410
Epoch 11/100
127/127 [=====] - 3s 24ms/step - loss: 0.0640 -
accuracy: 0.9782 - val_loss: 2.8360 - val_accuracy: 0.5470
Epoch 12/100
127/127 [=====] - 3s 22ms/step - loss: 0.0613 -
accuracy: 0.9792 - val_loss: 3.1672 - val_accuracy: 0.5272
Epoch 13/100
127/127 [=====] - 3s 21ms/step - loss: 0.0572 -
accuracy: 0.9797 - val_loss: 2.9963 - val_accuracy: 0.5381
Epoch 14/100
127/127 [=====] - 3s 21ms/step - loss: 0.0543 -
accuracy: 0.9819 - val_loss: 3.1438 - val_accuracy: 0.5391
Epoch 15/100
127/127 [=====] - 3s 21ms/step - loss: 0.0539 -
accuracy: 0.9817 - val_loss: 3.0393 - val_accuracy: 0.5569
Epoch 16/100
127/127 [=====] - 2s 18ms/step - loss: 0.0514 -
accuracy: 0.9802 - val_loss: 3.1866 - val_accuracy: 0.5470
Epoch 17/100
127/127 [=====] - 2s 17ms/step - loss: 0.0489 -

```
accuracy: 0.9812 - val_loss: 3.3838 - val_accuracy: 0.5440
Epoch 18/100
127/127 [=====] - 2s 18ms/step - loss: 0.0498 -
accuracy: 0.9802 - val_loss: 3.4959 - val_accuracy: 0.5361
Epoch 19/100
111/127 [=====>...] - ETA: 0s - loss: 0.0474 - accuracy:
0.9831
```

[]: