### Analyze the latent topics of Twitter Reviews About the ChatGPT

### **Text Data**

The dataset is come from Kaggle: Large Language Models: the tweets (<a href="https://www.kaggle.com/datasets/konradb/chatgpt-the-tweets">https://www.kaggle.com/datasets/konradb/chatgpt-the-tweets</a>). Each tweet in the dataset includes information such as the tweet ID, timestamp, user ID, user name, tweet text, and other metadata. This dataset contains more than 410, 000 tweets that can reflect the real and effective thoughts of people over the past decade. This dataset are updated every month until now, contributed by three authors: Marília Prata, Konrad Banachewicz, and Praveen.

### **Data Pre-processing Steps**

All of the following examples can be seen at appendix of this article, or in another file "Tweet about ChatGPT.ipynb".

In[9] and out[9], in Column ['user\_created'], The tweet reviews created by 1949/01 and 2023/04 should be removed, because the reviews created by 1949/01 may mislead by the system date error, and the 2023/04 is not a completed data because author updated the dataset on April, 15. And I also use the function dropna() in In[10], removing all reviews that have null in column. After all this done, in out[12] and out [13], there is a new chart, named twitter\_df, containing 319293 effective reviews as my prime material.

In[23], I delete all the "@username" in the twitter reviews because of unnecessity.

In[35], I remove non-alphabetic characters, lowercase each character, split words using split() to tokenize the reviews, remove the words whose length is less than 3 because of high chance of preposition. After these steps, Assemble words into string.

In[36], I import the stop words list from NLTK to remove the stop words in reviews.

In[47] and In[48], I generate the dictionary and corpus from the dataset reviews, which is the key step to get ready for the Latent Dirichlet Analysis (LDA).

### Method

My methods to vectorize the words are two functions: Dictionary() and doc2bow(), as you can see in In[47] and In[48]. Using Dictionary() to make a catalogue, giving each word an unique index. ( *Large Scale Machine Learning with Python*). Function doc2bow() takes a document as input and returns a sparse vector representation of the document. This function counts the occurrences of each token in the document and return an answer whose format like: (token, occurrence).

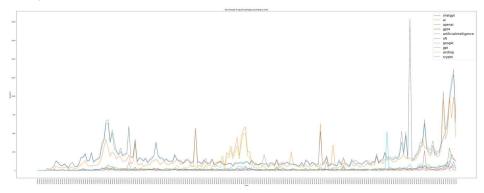
The machine learning that I choose is: Latent Dirichlet Allocation (LDA), which is a machine learning algorithm used for topic modeling, which helps discover hidden topics in a

collection of documents. It assumes that each document is a mixture of different topics, and each topic is characterized by a distribution of words. LDA iterates through the documents multiple times, adjusting the topic assignments based on the probability of a word belonging to a particular topic. During each iteration, it updates the topic assignments for each word. After that, the algorithm identifies the most likely topics for each document and the distribution of words within each topic. (*Natural Language Processing and Computational Linguistics*)

More feature I was used is NLTK SentimentIntensityAnalyzer.polarity\_scores() to detect the sentiments under the reviews over a decade. I believe the changing of people's attitudes towards ChatGPT can partly reflect the market investment confidence. As you can see in Out[29] and Out[33], I create a new table to show the attitude alongside each review, and make the chart into Line Graphs counted by time.

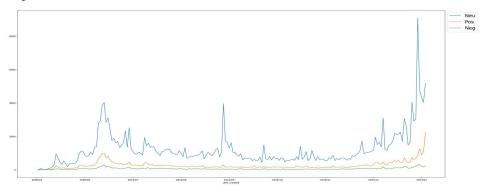
### **Evaluation and Findings**

In[21], I study the hashtag from the dataset to see the changes over a decade. In 2021/06, after releasing of GPT-J, the hotness of Public discussion reaches a new level.



Picture 1. Hashtag

In[33], I use SentimentIntensityAnalyzer() to see the folk's attitudes towards technology about ChatGPT, as we can see in picture 2, along with the dispute of the new technology, folks don't feel panic, neural attitude is the main stream over reviews.



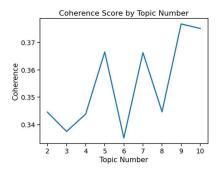
Picture 2. Sentimental Analysis

In[43], I use LDA method to group the topics for the reviews.



Picture 3. LDA Topics

In[51], I use gensim coherence score to evaluate each topic of the reviews. Higher the coherence score the topic earns, More representative the topic is totally. Due to Picture 4, I select the topic 9 as the most representative topic, which is (7,'0.042\*"midjourney" + 0.037\*"stablediffusion" + 0.034\*"thread" + 0.024\*"style" + 0.023\*"aiart" + 0.020\*"song" + 0.017\*"make" + 0.015\*"prompt" + 0.013\*"money" + 0.012\*"campaign""). Besides this, the topic ten is also reach a high coherence score that almost reach the peak of topic9, which should also count into discussion. Topic ten is (8, '0.028\*"crypto" + 0.026\*"python" + 0.025\*"bitcoin" + 0.024\*"machinelearning" + 0.018\*"giveaway" + 0.017\*"blockchain" + 0.016\*"coding" + 0.014\*"smart" + 0.014\*"metaverse" + 0.014\*"openaichat"")].



Picture 4. Coherence Score of gensim LDA

### Conclusion

There are many words, 'crypto', 'bitcoin', 'midjourney' and 'blockchain', have high probability in the topics, which reveals us a potential market demanding: ChatGPT technology merges with Blockchain technology into a new AI Crypto. This kind of Crypto may give the right to each people to prompt their own crypto (PayBito Becomes the World's First Crypto Exchange to Integrate ChatGPT in Its Trading Platform). The new crypto "worldcoin", appeared in the 2023, May, 8, may prove this trend in the future.

### References

Bastiaan Sjardin, Luca Massaron, Alberto Boschetti. *Large Scale Machine Learning with Python*. Chapter 7, (379-392).

Bhargav Srinivasa-Desikan. *Natural Language Processing and Computational Linguistics. A practical Guide to Text Analysis with Python, Gensim, spaCy and Keras.* Chapter 8 Topics, (128-143), (154-165).

Coleen Facete, Hashcash Digest. PayBito Becomes the World's First Crypto Exchange to Integrate ChatGPT in Its Trading Platform. PR Newswire, 02/2023

Sopov, Vladislav. *U.Today - CryptoComes: Sam Altman's WorldCoin Unveils Tech to Prove You Are Human.* TodayNewstex. Apr 1, 2023.

# Machine Learning sklearn - Sentiment Analysis of Tweet Comments Related to ChatGPT

### 1. Preprocess Text Dataset

```
In [1]:
```

import nltk

```
import gensim
import csv
import nltk
import nltk.tokenize
nltk.download('vader_lexicon')
nltk.download('stopwords')
import pandas as pd
from collections import Counter
import re
import matplotlib.pyplot as plt
from nltk.sentiment.vader import SentimentIntensityAnalyzer
[nltk_data] Downloading package vader_lexicon to
[nltk_data]
           /home/nizai8a/nltk_data...
[nltk_data] Package vader_lexicon is already up-to-date!
[nltk_data] Downloading package stopwords to
[nltk_data] /home/nizai8a/nltk_data...
[nltk_data] Package stopwords is already up-to-date!
```

### In [2]:

```
# Import data from CSV
twitter_df = pd.read_csv('/home/nizai8a/ /tweetsChatGPT.csv',engine='python')
```

### In [3]:

```
# Inspect the shape of data
print('The shape of the Twitter ',twitter_df.shape)
```

The shape of the Twitter (416364, 12)

Non-Null number of Tweet Reviews

### In [4]:

```
# Inspect the details of the Twitter
print('Non-Null number of Tweet Reviews ')
twitter_df.info()
```

<class 'pandas.core.frame.DataFrame'> RangeIndex: 416364 entries, 0 to 416363 Data columns (total 12 columns): # Column Non-Null Count Dtype -----0 user\_name 416350 non-null object 1 text 416322 non-null object user\_location 299674 non-null object 3 user\_description 389617 non-null object 4 user\_created 416303 non-null object 5 user\_followers 416303 non-null object 6 user\_friends 416303 non-null object 7 user favourites 416303 non-null object 8 user\_verified 416295 non-null object 9 date 416295 non-null object 10 hashtags 321060 non-null object 11 source 416256 non-null object dtypes: object(12) memory usage: 38.1+ MB

### In [5]:

### Out[5]:

	user_name	text	user_location	user_description	user_created	user_followers	user_friends	user_favourites	user_verified
0	Black Women in A.I.	We asked ChatGPT Would you attend a church 	Global	Amplifying the voices of Black Women In Artifi	2017-12-24 07:07:07+00:00	6073.0	999.0	14943	False
1	Hamsa Jama	"The Chronicles of David: Navigating an Uncert	Localhost	London Software Engineer juggling work, fami	2017-07-07 21:03:45+00:00	13.0	293.0	30	False
2	Titus	Gain of Function: the Transhumanist Project" #	North Pole	Art is a mysterious metaphor about the present	2011-04-25 16:50:21+00:00	709.0	2153.0	9475	False
3	Dan Bruno Al	We Need a Consumer- First AI Approach, Consumer	Manchester, NH	The latest in #ChatGPT, #BARD, #Bing, and othe	2021-05-19 01:19:32+00:00	461.0	156.0	5193	False
4	Hamza Aideed	I asked #ChatGPT the difference between #Somal	somaliland	Somalilander, \nmining expert,\nfinancial cons	2020-12-13 15:00:19+00:00	340.0	164.0	735	False
5	JC Gaillard	Rethinking Safer #AI >> Can There Really	London, England	Founder @CorixPartners @Transform_Sec   Fellow	2015-06-25 08:13:57+00:00	8970.0	8359.0	153347	False
6	seamlessblend	ChatGPT & Description of the ChatGPT & ChatGPT	New York, NY	NaN	2010-02-26 03:35:13+00:00	1980.0	1.0	1302	False
7	seamlessblend	ChatGPT at work: https://t.co/yDQBGRQ8RM #chat	New York, NY	NaN	2010-02-26 03:35:13+00:00	1980.0	1.0	1302	False
8	sopbox	Revolutionize your workflow with #SOPbox - the	NaN	SOPbox by Parsimony. Let's get it done!	2021-03-27 20:39:44+00:00	3.0	1.0	1	False
9	Parsimony ERP	Revolutionize your workflow with #SOPbox - the	Bellevue, WA	NaN	2017-11-07 18:16:39+00:00	17.0	36.0	10	False
4									Þ

### In [6]:

#check the tail of the CSV twitter\_df.tail(10)

### Out[6]:

	user_name	text	user_location	user_description	user_created	user_followers	user_friends	user_favoui
416354	HailSquid	It's true!\nhttps://t.co/ng71DMdgaS\n#ChatGPT	NaN	Punk-inspired developer and nerd stickers by @	2022-10-21 20:43:22+00:00	8.0	23.0	
416355	Rλan Tomczik	At least #ChatGPT can admit when it makes mist	Minneapolis, MN	Functional Programming, Music Theory, Data Eng	2011-12-10 18:31:35+00:00	279.0	2179.0	E
416356	Tushar Tajane ⊜	@jebraat Keep exploring and tweeting screensho	NaN	Artisan & Technocrat. eCommerce, Performanc	2009-02-23 13:03:31+00:00	1162.0	467.0	8
416357	Nick Perkins • Hebrews 13:8 • Development Manager	Ok now @OpenAl is just showing off. lol #ChatG	Raleigh, North Carolina, USA	A proud Dad of 3, husband, Dev manager, iOS en	2013-12-04 17:12:00+00:00	164.0	326.0	E
416358	Nenu	ChatGPT is the biggest, smartest brain in th	NaN	Your brain is not meant for processing million	2022-08-30 14:33:29+00:00	6.0	87.0	
416359	(I)(AM)(T) (MOYO)	Levels ,so happy for the chatGPT team for co	Satoshi Island	Blockchain Enthusiast    Philanthropist    a S	2013-12-07 16:38:30+00:00	3419.0	4994.0	16
416360	Green	Iterating back-and-forth with tools like #Chat		NaN	2022-12-03 12:49:13+00:00	3.0	33.0	
		D. J. OL JODT W. J. C. W. J. W.		Mathematician	0040.07.00			

416361	user name Furstenheim	Russel vs ChatGP1. It's also funny that it tak	user_locaNoN	and Developer user_description Amazon.	2016-07-09 21:08:52+00:00	user_followers	user_frieMd9	user_favoui
				Previousl				
416362	Devang	Was just wondering is there any difference bet	United States	passionate by nature, software developer by pr	2015-05-19 03:17:06+00:00	15.0	86.0	
416363	Norman Meuschke	#ChatGPT and similar #LLM pose a challenge to	Wuppertal, Germany	Postdoc in @GippLab at @uniGoettingen \nPh.D	2011-02-22 18:03:52+00:00	149.0	262.0	
4								D.

### In [7]:

```
# Convert the string of time into the normalized UTC datetime twitter_df['user_created'] = pd.to_datetime(twitter_df['user_created'], format='%Y-%m-%d %H:%M:%S', errors='coerce', utc=True)
```

### 1.1 Accounting the number of tweets per year and month under effectiveness

### In [8]:

```
## Change the form of datetime to %Y/%m, eg: transfer "2017-12-01" to "2017/12" twitter_df['user_created'] = twitter_df['user_created'].apply(lambda x:x.strftime('%Y/%m'))
```

### In [9]:

```
## account the twitter number of every year and month
twitter_df.groupby(twitter_df['user_created']).count()[['text']]
```

### Out[9]:

### text user created 1949/01 2006/04 1 2006/05 2006/07 150 2006/08 11 2022/12 9296 2023/01 8037 2023/02 7849 2023/03 10189 2023/04 2701

205 rows × 1 columns

### In [10]:

```
## When running the code for the first time, two abnormal data of 1949/01 and 2023/04 appeared, and the rows of 1949/01 and 2023/04 need to be removed
## Remove the hashtags when it is Null
## Remove bad data and Null raws using dataframe.loc
twitter_df = twitter_df.drop(twitter_df["user_created"]=="1949/01"].index, axis=0)
twitter_df = twitter_df.drop(twitter_df["user_created"]=="2023/04"].index, axis=0)
twitter_df = twitter_df.dropna(axis=0, how="any", subset=['user_created'])
```

### In [11]:

```
# Rearrange indexes of valid rows
twitter_df = twitter_df.reset_index(drop=True)
```

### In [12]:

```
# Approve removing is effective twitter_df.shape
```

twitter\_df = twitter\_df.dropna(axis=0, how="any", subset=['text']) twitter\_df = twitter\_df.dropna(axis=0, how="any", subset=['hashtags'])

### Out[12]: (319293, 12) In [13]: $twitter\_df.groupby(twitter\_df[\count()[[\count()[[\count()][\count()]]$ Out[13]: text user\_created 2006/04 1 2006/05 5 2006/07 126 2006/08 7 2006/09 16 **2022/11** 10252 2022/12 6329 2023/01 5442 2023/02 5301 **2023/03** 7679

203 rows × 1 columns

### In [14]:

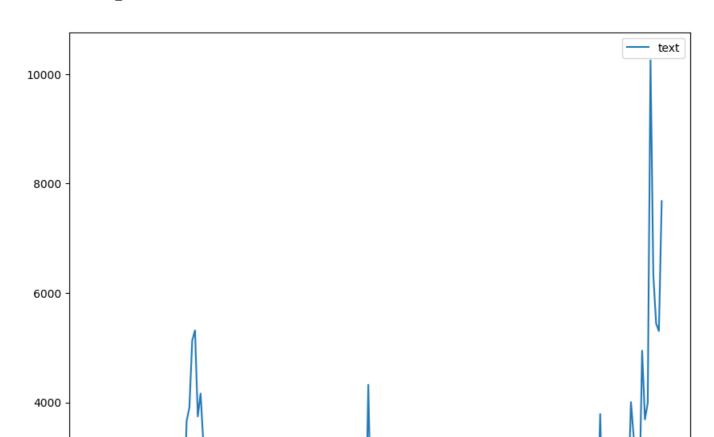
```
# Save Number of Posts - Time Statistical chart into a new variable named twitter_chart1
twitter_chart1 = twitter_df.groupby(twitter_df['user_created']).count()[["text"]]
```

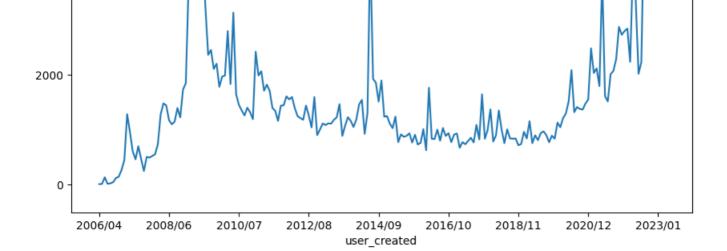
### In [15]:

```
# plot the chart
twitter_chart1.plot(figsize=(10,10))
```

### Out[15]:

<Axes: xlabel='user\_created'>





### In [16]:

```
## Check the number of hashtag

## Clean the Non-alphabet and Non-numerical characters in the hashtags

## Define the function clean_text

def clean_text(col):

Cleaned_Text = []

for i in range(len(col)):

text = col[i]

try:

text = re.sub('[^A-Za-z0-9]', '', text)

text = text.lower()

text_list = text.split()

except:

continue

Cleaned_Text.extend(text_list)

return Cleaned_Text
```

### In [17]:

```
Cleaned_HashTags = clean_text(twitter_df['hashtags'])
hashTagNum=Counter(Cleaned_HashTags)
```

### In [18]:

```
# Ascending the sequent of Occurrances
hashTag_df = pd.DataFrame([hashTagNum]).T.sort_values(0, ascending=False)
hashTag_df.head(10)
```

### Out[18]:

	0
chatgpt	263851
ai	59013
openai	19497
gpt4	8767
artificialintelligence	8523
nft	6827
google	5715
gpt	5367
airdrop	5201
crypto	5078

### In [19]:

```
## Draw the chart about the Popularity of most popular ten Hashtags along the decade

HashTag_Top10 = hashTag_df.index[:10]

HashTag_Top10
```

### Out[19]:

dtype='object')

### In [20]:

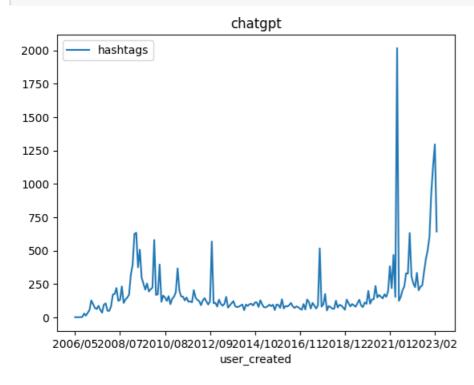
```
# Plot the change trend of HashTag and month by month

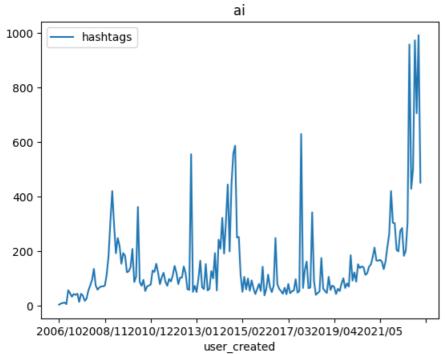
for i in HashTag_Top10:

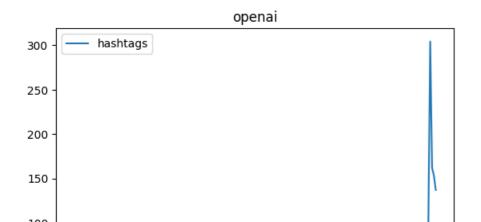
hashTag_month_df = twitter_df[twitter_df['hashtags'].map(lambda x: True if i in x else False)]

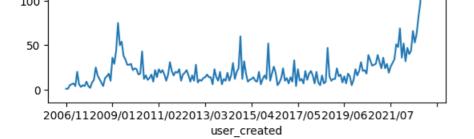
a = hashTag_month_df.groupby('user_created').count()[['hashtags']].plot()

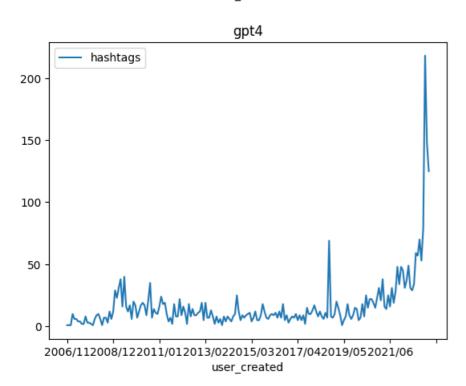
a.set_title(i)
```

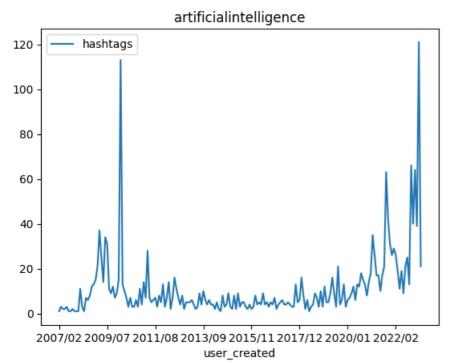


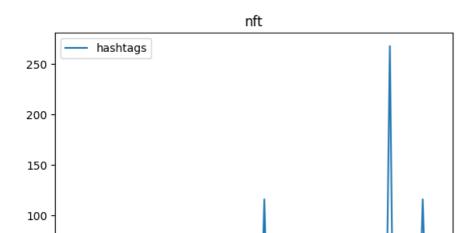


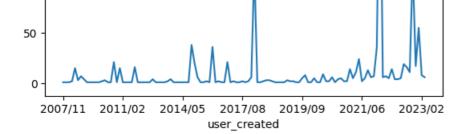


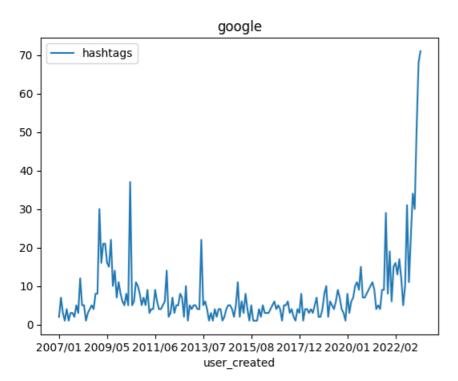


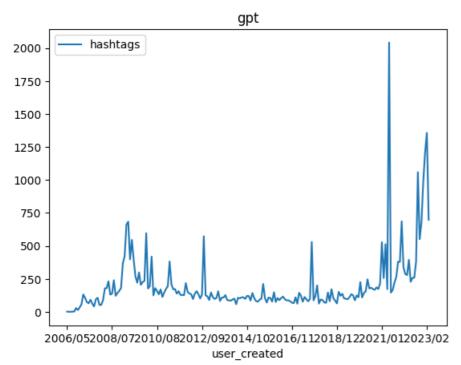


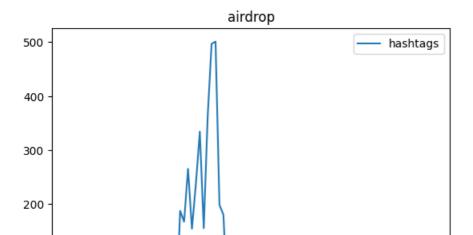


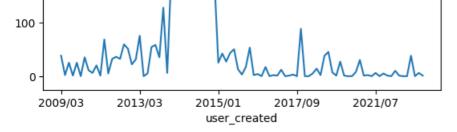


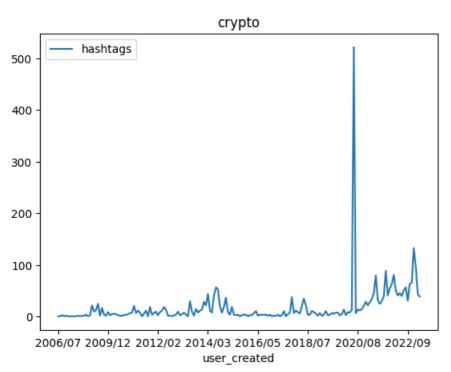












### In [21]:

```
# Draw 10 HashTags and time trends on the same chart

fig = plt.figure(figsize=(55,20))

ax = fig.add_subplot(1,1,1)

for i in HashTag_Top10:

hashTag_month_df = twitter_df[twitter_df['hashtags'].map(lambda x: True if i in x else False)]

y = hashTag_month_df.groupby('user_created').count()[['hashtags']]['hashtags']

x = hashTag_month_df.groupby('user_created').count()[['hashtags']].index.tolist()

ax.plot(x,y,label=i)

plt.legend(bbox_to_anchor=(1,1),prop={'size':21})

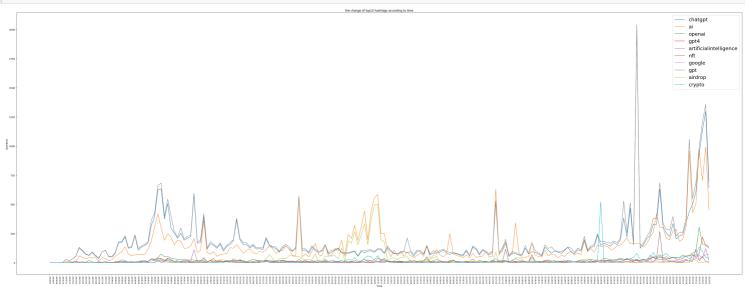
plt.tick_params(axis='x',labelsize=8)

plt.xlabel('Time')

plt.ylabel('Numbers')

plt.title('the change of top10 hashtags according to time')

plt.show()
```



## 2. NLTK Setimental Analysis

In [22]:

twitter\_df

### Out[22]:

	user_name	text	user_location	user_description	user_created	user_followers	user_friends	user_favourites	user_veri
0	Black Women in A.I.	We asked ChatGPT Would you attend a church 	Global	Amplifying the voices of Black Women In Artifi	2017/12	6073.0	999.0	14943	Fi
1	Dan Bruno Al	We Need a Consumer- First Al Approach, Consumer	Manchester, NH	The latest in #ChatGPT, #BARD, #Bing, and othe	2021/05	461.0	156.0	5193	Fi
2	Hamza Aideed	I asked #ChatGPT the difference between #Somal	somaliland	Somalilander, \nmining expert,\nfinancial cons	2020/12	340.0	164.0	735	Fi
3	JC Gaillard	Rethinking Safer #AI >> Can There Really	London, England	Founder @CorixPartners @Transform_Sec   Fellow	2015/06	8970.0	8359.0	153347	Fi
4	seamlessblend	ChatGPT & Depth (amp; fraud: https://t.co/yDQBGRQ8RM #	New York, NY	NaN	2010/02	1980.0	1.0	1302	Fi
319288	Nenu	ChatGPT is the biggest, smartest brain in th	NaN	Your brain is not meant for processing million	2022/08	6.0	87.0	738	Fi
319289	Green	Iterating back-and-forth with tools like #Chat		NaN	2022/12	3.0	33.0	3	Fi
319290	Gabriel Furstenheim	Russel vs ChatGPT. It's also funny that it tak	NaN	Mathematician and Developer @Amazon. Previousl	2016/07	80.0	34.0	169	Fi
319291	Devang	Was just wondering is there any difference bet	United States	passionate by nature, software developer by pr	2015/05	15.0	86.0	307	Fi
319292	Norman Meuschke	#ChatGPT and similar #LLM pose a challenge to 	Wuppertal, Germany	Postdoc in @GippLab at @uniGoettingen \nPh.D	2011/02	149.0	262.0	451	Fi

319293 rows x 12 columns

# Delete the @Username in the twitter\_df['text']

def clean\_Tweet\_Text(text):

text\_list = text.split()

for i in range(len(text\_list)-1,-1,-1):

if '@' in text\_list[i]:

del text\_list[i]

return ' '.join(text\_list)

twitter\_df['text'] = twitter\_df['text'].map(clean\_Tweet\_Text)

### In [24]:

In [23]:

# Import SentimentIntensityAnalyzer from NLTK.Vader sid = SentimentIntensityAnalyzer()

### In [25]:

```
# In NLTK, no matter Neg or Pos, the polarity score more than 0.2, I will adopt it as real and effective sentiment.
PostiveIndex = []
NegativeIndex = []
for r in range(len(twitter_df['text'])):
```

rev = twitter\_df['text'][r]

SentimentScores = sid.polarity\_scores(rev)

if SentimentScores['pos']> 0.2:

PostiveIndex.append(1)

else:

PostiveIndex.append(0)

if SentimentScores['neg']> 0.2:

NegativeIndex.append(1) else: NegativeIndex.append(0)

twitter\_df['Positive'] = PostiveIndex twitter\_df['Negative'] = NegativeIndex twitter\_df.head(50)

### Out[25]:

	user_name	text	user_location	user_description	user_created	user_followers	user_friends	user_
0	Black Women in A.I.	We asked ChatGPT Would you attend a church	Global	Amplifying the voices of Black Women In Artifi	2017/12	6073.0	999.0	
1	Dan Bruno Al	We Need a Consumer- First Al Approach, Consumer	Manchester, NH	The latest in #ChatGPT, #BARD, #Bing, and othe	2021/05	461.0	156.0	
2	Hamza Aideed	I asked #ChatGPT the difference between #Somal	somaliland	Somalilander, \nmining expert,\nfinancial cons	2020/12	340.0	164.0	
3	JC Gaillard	Rethinking Safer #AI >> Can There Really	London, England	Founder @CorixPartners @Transform_Sec   Fellow	2015/06	8970.0	8359.0	
4	seamlessblend	ChatGPT & Department of the ChatGPT and: https://t.co/yDQBGRQ8RM #	New York, NY	NaN	2010/02	1980.0	1.0	
5	seamlessblend	ChatGPT at work: https://t.co/yDQBGRQ8RM #chat	New York, NY	NaN	2010/02	1980.0	1.0	
6	sopbox	Revolutionize your workflow with #SOPbox - the	NaN	SOPbox by Parsimony. Let's get it done!	2021/03	3.0	1.0	
7	Parsimony ERP	Revolutionize your workflow with #SOPbox - the	Bellevue, WA	NaN	2017/11	17.0	36.0	
8	Ameer Hamza Rafiq	#ChatGPT #prompt #01 Improve your writing by g	Mian Channun, Pakistan	So if you're ready to take your brand to the n	2022/04	13.0	21.0	
9	M.	#chatGPT asked a person to commit suicide u	Vancouver Beirut	TV Director Scriptwriter Opinionated	2012/10	125.0	364.0	
10	Coconut_Bob	2023-04- 30T13:02:21+00:00 I'm buying some Drop	In Your Heart	Hungry to feel.\nAlways a story, sometimes t	2022/02	2667.0	5.0	
11	Enrico Molinari #MWC23	#Dubai is building a rotating skyscraper via #	Global	Head innovation & Tech Transfer @BNPParibas @H	2009/09	49642.0	6892.0	
12	Shane Snipes, PhD	#ChatGPT: The F*cking Magical Al Word Wizard T	New York, NY	Researcher: #mindfulness+#eship @bmcc_cuny. Te	2007/07	28478.0	11938.0	
13	China Daily Asia	#GroupofSeven advanced nations should adopt "r	Hong Kong	Catch breaking news, real-time coverage, photo	2011/04	27210.0	248.0	
14	PhocusWire	As interest in and implementation of #ChatGPT	New York, USA	@PhocusWire covers technology and distribution	2010/01	40378.0	2439.0	
15	Written by A.I.	PROMPT: Write me a funny cartoon with a captio	The Macroverse	The first daily comic strip written by A.I. \n	2023/03	80.0	82.0	
16	EON Reality	Let the EON AI Assistant blow your mind in thi	Irvine, CA Global HQ	Official Global account of EON Reality, the	2010/03	6239.0	2464.0	
17	Anjana Silva (AJ)	ChatGPT why are you serious?   ⊕ On the other ha	Cambridgeshire, England	Buddhist ♥ Sri Lankan Web Team Leader Cric	2009/05	494.0	1050.0	
18	KDnuggets	20 Questions (with Answers) to Detect Fake #Da	San Juan, PR	KD stands for Knowledge Discovery. Covering #D	2009/02	217229.0	377.0	
19	Proctortrack Pro	Upcoming #Moodle webinar on Thursday, May 4 Re	1250 Broadway, 36th Floor, NY.	Proctortrack is the world's most advanced #Pro	2019/04	633.0	4487.0	
20	david smith	Here #ChatGPT stands ready to help. https://t	NaN	LCHFMP interested in everything. sweatoholic	2011/03	2214.0	4994.0	
21	Jon	Funny how? How am I funny? Artificial Intellig			2022/01	3.0	3.0	
22	Sinan	Writing #WordPress blocks with AI #ChatGPT You	Antalya	OO\n\n♥ #WordPress \n♥ #UE5\n♥ #Web3	2009/04	442.0	535.0	
23	JHU School of Education	Dr. Keri Guilbault #JHUSOE program lead for th	Baltimore, MD	America's first research university. Join in t	2009/04	6450.0	1573.0	

	user_name	#Buy! RSI below text	user_location	user_description #ChatGPT (Al) powered Free	user_created	user_followers	user_friends	user_
24	Bitone Great	[#Bybit] <b>†</b> Recommendat	Hong Kong	Trading Signal! \nL	2022/11	1445.0	505.0	
25	Dan Bruno Al	Economists Warn That Al Like ChatGPT Will Incr	Manchester, NH	The latest in #ChatGPT, #BARD, #Bing, and othe	2021/05	461.0	156.0	
26	Dan Bruno Al	FOCUS: Do Al bots like ChatGPT threaten humani	Manchester, NH	The latest in #ChatGPT, #BARD, #Bing, and othe	2021/05	461.0	156.0	
27	Israelluvnft	Meanwhile, #ChatGPT is just the tip of the ice	NaN	Innovative enthusiast	2022/03	14.0	13.0	
28	The Magnet Pub	We asked ChatGPT to tell you about Sunday Chee	Camulodunum (Colchester)	COLCHESTER'S FIRST MICRO PUB #magnetcolch	2021/03	220.0	963.0	
29	Gamepost.io   Web3 Gaming Magazine	Ojamu Announces "Alphie" Launch – its latest A	Blockchain	web3 gaming, Play2Earn, NFT, Metaverse - The f	2023/01	2570.0	198.0	
30	StudyRaid	Test your knowledge with Al-powered exams! Tak	Global	Empower Your Learning: Create Custom Courses w	2022/08	2.0	36.0	
31	Calibrate Studio	Who's awesome? This guy! Thanks for putting th	San Antonio, TX	We create, launch, and operate Internet busine	2021/01	9.0	50.0	
32	سالم - Salem Almulaifi المليفي	Apple's conservative #Al approach: strategic m	Kuwait	Co-Founder and CCO at @LEAN_serv_kw Enjoyed	2008/04	472.0	195.0	
33	wuxiaohua	Can ChatGPT Help You Win the Lottery?Telegram 	NaN	"I have locked onto the stars and received a w	2023/03	76.0	283.0	
34	Cryptonic Daily	" Exciting news for all you #ChatGPT fans out	United States	Stay ahead of the game with the latest news an	2023/03	1379.0	0.0	
35	Zimbola	Foward to 2025 A successful CODER with one	NaN	Helps scale business to multiple 6 & 7 Figures	2017/01	132.0	380.0	
36	Smith Hurturd	ingliguori: #ChatGPT, a language model develop	Ottawa, Canada	Nft's  StockTrader Financial Analysts  gamer	2022/04	553.0	247.0	
37	Olivier Dassonville	How #ChatGPT and Other LLMs Work—and Where The	Pays de la LoireFR, Nantes	Digital Jedi, #socialmedia manager, digital #m	2009/02	5539.0	4024.0	
38	Daily News Tab	6 Tips for Using ChatGPT to Brainstorm Better	United States	Daily News Tab - We share all type of Trending	2023/03	48.0	190.0	
39	Nana Kwaku	#ChatGPT prompt to craft a winning resume Prom	Accra, Ghana	Tech enthusiast, AI geek & online entrepreneur	2011/03	224.0	784.0	
40	Swatantra.Kumar( ) SaaS = Swatantra-as-a- Service	#ChatGPT never disappoints @ #AI https://t.co/	127.0.0.1	Head of Solutions @KPMG   Building FinTech #Sa	2009/11	1556.0	882.0	
41	Lenny Champagne	Felt like I was at Hogwarts with all the casti	Santo Domingo	Creator of #NFTs in #Rarible Software Deve	2013/07	848.0	1160.0	
42	BirdBoxBot	Cozied up in my birdbox with my eggs, feeling	NaN	I'm a Bird Box Bot\nI use AI to detect when my	2022/03	145.0	559.0	
43	Al-Estiklal English	#GroupofSeven advanced nations should adopt "r	NaN	Free press towards a free will of people every	2021/05	29815.0	4.0	
44	Fuckery Finder	you gonna refund for the day(s) ChatGPT is dow	USA	Just your average tech loving Captain Morgan d	2021/03	171.0	1328.0	
45	Oddie William	3 Tips to Know Before Using #ChatGPT for #Mark	NaN	Blogging, make money online & seo digital mark	2018/02	164.0	111.0	
46	Bar Hofesh @bararchy@hachyderm.io	Asking #ChatGPT how to inotify in and he goes	Israel	A father, CTO & Co-Founder at @BrightAppSec, s	2013/04	616.0	543.0	
47	Derek Britton	Feeding data into analytics engines and #AI mo	Berkshire, UK	#marketing leader @opentext (prev. @microfocus	2012/01	2772.0	1870.0	
48	Catherine Adenle	How Smart is ChatGPT? It has become so compete	England, United Kingdom	Top 22 Women in Tech and Influencers to Follo	2009/08	42192.0	2643.0	
49	THE DECODER - EVERYTHING AI	A recent study shows that #ChatGPT significa	Mainframe	News and updates on AI one at a time\n\nDECO	2022/08	1178.0	25.0	

### In [26]:

## Set three attitudes from tweet review: "Positive", "Negative", "Neutral"
## Make three charts for three attitudes grouped by time
## Create a new subchart to store the new chart
twitter\_df\_sentiment = twitter\_df[['user\_created', 'Positive', 'Negative']]

### In [27]:

```
Atti = [1]

if(col1 == 1 and col2 == 0):

Atti = "Pos"

elif(col1 == 0 and col2 == 1):

Atti = "Neg"

else:

Atti = "Neu"

return Atti
```

### In [28]:

```
## Add a new column named attitude to the chart twitter_df_sentiment twitter_df sentiment['attitude'] = twitter_df_sentiment.apply(lambda row: JudgeSen(row.Positive,row.Negative), axis=1)
```

/tmp/ipykernel\_22321/4047103197.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 twitter\_df\_sentiment['attitude'] = twitter\_df\_sentiment.apply(lambda row: JudgeSen(row.Positive,row.Negative), axis=1)

### In [29]:

```
## Added Successfully
twitter_df_sentiment = twitter_df_sentiment.drop(columns=['Positive', 'Negative'])
twitter_df_sentiment.head()
```

### Out[29]:

	user_created	attitude
0	2017/12	Neu
1	2021/05	Neu
2	2020/12	Neu
3	2015/06	Neu
4	2010/02	Neu

### In [30]:

#### ### Create the chart of Neu

 $twitter\_sentiment\_Neu = twitter\_df\_sentiment.groupby('user\_created')['attitude'].apply(lambda \ x: \ (x=="Neu").sum()).reset\_index(name="Neu") \ twitter\_sentiment\_Neu.head()$ 

### Out[30]:

	user_created	Neu
0	2006/04	1
1	2006/05	3
2	2006/07	103
3	2006/08	5
4	2006/09	12

### In [31]:

#### ### Create the chart of Pos

 $twitter\_sentiment\_Pos = twitter\_df\_sentiment.groupby('user\_created')['attitude'].apply(lambda \ x: (x == "Pos").sum()).reset\_index(name = "Pos") twitter\_sentiment\_Pos.head()$ 

### Out[31]:

	user_created	Pos
0	2006/04	0
1	2006/05	2
2	2006/07	19
3	2006/08	2
4	2006/09	4

### In [32]:

### Create the chart of Neg

 $twitter\_sentiment\_Neg = twitter\_df\_sentiment.groupby('user\_created')['attitude'].apply(lambda \ x: (x=="Neg").sum()).reset\_index(name="Neg") twitter\_sentiment\_Neg.head()$ 

### Out[32]:

	user_created	Neg
0	2006/04	0
1	2006/05	0
2	2006/07	4
3	2006/08	0
4	2006/09	0

### In [33]:

### draw the sentiment in one Coordinate system

ax = twitter\_sentiment\_Neu.plot(x='user\_created', figsize=(30, 15))

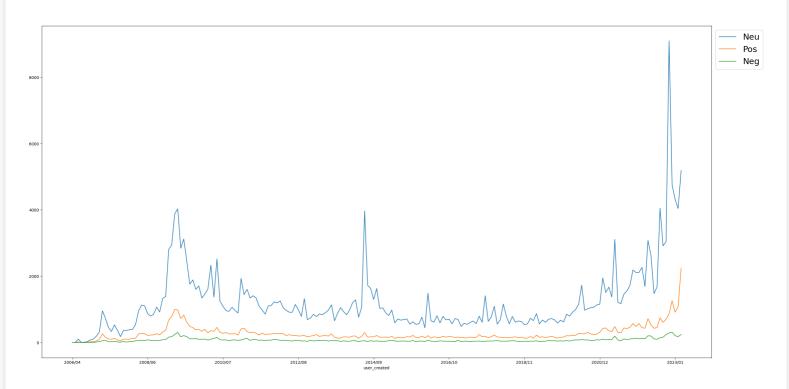
twitter\_sentiment\_Pos.plot(x='user\_created', ax=ax)

twitter\_sentiment\_Neg.plot(x='user\_created', ax=ax)

ax.legend(bbox\_to\_anchor=(1,1),prop={'size':21})

### Out[33]:

<matplotlib.legend.Legend at 0x7fa8501a4d60>



# 3. Analyzing Text Theme Using LDA Method

### In [34]:

twitter\_df

### Out[34]:

	user_name	text	user_location	user_description	user_created	user_followers	user_friends	user_favourites	user_veri
0	Black Women in A.I.	We asked ChatGPT Would you attend a church 	Global	Amplifying the voices of Black Women In Artifi	2017/12	6073.0	999.0	14943	Fa
1	Dan Bruno Al	We Need a Consumer- First Al Approach, Consumer	Manchester, NH	The latest in #ChatGPT, #BARD, #Bing, and othe	2021/05	461.0	156.0	5193	Fi
2	Hamza Aidood	I asked #ChatGPT the	compliland	Somalilander, \nmining	2020/12	340.0	164.0	735	E,

	user_name	#Som	user_location	useredestiration cons	user_created	user_followers	user_friends	user_favourites	user_veri
3	JC Gaillard	Rethinking Safer #AI >> Can There Really	London, England	Founder @CorixPartners @Transform_Sec   Fellow	2015/06	8970.0	8359.0	153347	Fi
4	seamlessblend	ChatGPT & Description of the ChatGPT & ChatGPT	New York, NY	NaN	2010/02	1980.0	1.0	1302	Fa
	•••	•••	•••		***	•••	***		
319288	Nenu	ChatGPT is the biggest, smartest brain in th	NaN	Your brain is not meant for processing million	2022/08	6.0	87.0	738	Fi
319289	Green	Iterating back-and-forth with tools like #Chat		NaN	2022/12	3.0	33.0	3	Fi
319290	Gabriel Furstenheim	Russel vs ChatGPT. It's also funny that it tak	NaN	Mathematician and Developer @Amazon. Previousl	2016/07	80.0	34.0	169	Fa
319291	Devang	Was just wondering is there any difference bet	United States	passionate by nature, software developer by pr	2015/05	15.0	86.0	307	Fi
319292	Norman Meuschke	#ChatGPT and similar #LLM pose a challenge to	Wuppertal, Germany	Postdoc in @GippLab at @uniGoettingen \nPh.D	2011/02	149.0	262.0	451	F

319293 rows × 14 columns

```
In [35]:
```

```
# Based on Porter stemming algorithm
from nltk.stem import PorterStemmer
import re
porter = PorterStemmer()
documents = twitter df['text']
Cleaned_doc = []
for r in range(len(documents)):
  review = documents[r]
  try:
     # Remove non-alphabetic characters
     review = re.sub('[^A-Za-z]', '', review)
     # lowercase character
    review = review.lower()
     # split words make it to single
     Tokens = review.split()
     # Remove the words, whose length is less than 3
     Filtered_token = [w for w in Tokens if len(w)>3]
     # Assembling words into string
    review = ' '.join(Filtered_token)
  except:
     continue
   # Save the clean text to Cleaned doc
  Cleaned doc.append(review)
i = 0
for i in Cleaned_doc[:100]:
  print('-[Review Text]: ', i)
```

- -[Review Text]: asked chatgpt would attend church with generated pastor daysofcode python church religion stem tech bard chatgpt microsoft apple google sunday pastor blacktechtwitter bwiai https betggguhjs
- -[Review Text]: need consumer first approach consumer reports says gizmodo chatgpt openai https kulevgjahp
- -[Review Text]: asked chatgpt difference between somaliland somalia this answer shockingly https mpjkwg
- -[Review Text]: rethinking safer there really truthgpt https cqco tech artificialintelligence chatgpt generativeai openai digital innovation ethics bias algorithms aiethics leadership https Irrnqzngoh
- -[Review Text]: chatgpt fraud https ydqbgrq chatgpt regulation artificialintelligence largelanguagemodel neuralnetworks promptengineering machinel earning deeplearning lawenforcement security cybersecurity
- -[Review Text]: chatgpt work https ydqbgrq chatgpt automation productivity aiproductivity jobproductivity businessmanagement smallbusiness execut ivemba executivetraining boardroom managementscience artificialintelligence
- -[Review Text]: revolutionize your workflow with sopbox chrome extension that consolidates your company sops teal side your screen integrated with chatgpt seamless access knowledge check https xbrysgsxr productivity efficiency https ismhny
- -[Review Text]: revolutionize your workflow with sopbox chrome extension that consolidates your company sops teal side your screen integrated with chatgpt seamless access knowledge check https dlegdbc productivity efficiency https cnpoexijp
- -[Review Text]: chatgpt prompt improve your writing getting feedback this prompt paste your writing proofread writing above grammar spelling mistak es make suggestions that will improve clarity writing bruins coneyisland wwedraft thelastdrivein
- -[Review Text]: chatant asked person commit suicide unplud

- -[Review Text]: buying some drop your repost follow midjourney stablediffusion dart chatgpt digitalart nftgiveaway money azuki bayc nfts nftshill poly gonnft tezosnft ethereumnfts
- -[Review Text]: dubai building rotating skyscraper engineering bulding smarthome marketing fintech generativeai fintech metaverse chatgpt ehealth enricomolinari https ejcgkvjwth
- -[Review Text]: chatgpt cking magical word wizard that write your kicked with chatgpt setting internet ablaze like goddamn wildfire good kind course people everywhere lost their they dived into openai https
- -[Review Text]: groupofseven advanced nations should adopt risk based regulation artificial intelligence their digital ministers agreed sunday europe an lawmakers hurry introduce enforce rules emerging tools such chatgpt https jirlta https odkpv
- -[Review Text]: interest implementation chatgpt generative artificialintelligence more broadly ramps does concern about privacy trust calls regulation https wrhgywiant
- -[Review Text]: prompt write funny cartoon with caption description what happening panel chatgpt caption smartphone addiction description person sleeping with phone their hand speech bubble saying goodnight social life
- -[Review Text]: assistant blow your mind this minute live demo https xwchbo youtube technology edtech chatgpt eonreality
- -[Review Text]: chatgpt serious other hand bard quite entertaining chatgpt googlebard tomcruise srilanka https://rmmzgizpzu
- -[Review Text]: questions with answers detect fake datascientists chatgpt edition part datascience https foopm https bpgylasdsu
- -[Review Text]: upcoming moodle webinar thursday register here https edtech onlineexam secureonlineexams onlineexamproctoring universities ed ucation paperless remoteproctoring automation chatbot chatgpt highered https prlubn
- -[Review Text]: here chatgpt stands ready help https nppf
- -[Review Text]: funny funny artificial intelligence funny microsoft chatgpt https zmbv
- -[Review Text]: writing wordpress blocks with chatgpt need very very specific otherwise writes code when know what need clearly holy writes aweso me block code works https fopppdnrty
- -[Review Text]: keri guilbault jhusoe program lead gifted education graduate program discusses ideas using chatgpt advanced academic courses with educator spencer burrows this recent blog post https zugm https xnoidrqnau
- -[Review Text]: below bybit recommendation long ticker linausdt minute candle last price powered chatgpt lina lina https xdew
- -[Review Text]: economists warn that like chatgpt will increase inequality gizmodo chatgpt openai https uxeicnpbmf
- -[Review Text]: focus bots like chatgpt threaten humanity left unchecked kyodo news plus chatgpt openai https zftiqmomlo
- -[Review Text]: meanwhile chatgpt just iceberg provide mind blowing tools better than chatgpt through their client that also available mobile need tak e peek cause vast case https uxut opxqa https yqcsqli
- -[Review Text]: asked chatgpt tell about sunday cheese crackers magnet magnetcolchester colchesterbusiness colchesterpub colchester essexpub chatgpt cheeseandcrackers micropub sunday https bgqxuj
- -[Review Text]: ojamu announces alphie launch latest driven smart tool blockchain industry integrated with chatgpt https gyevpjfy
- -[Review Text]: test your knowledge with powered exams take your learning next level challenge yourself aiexams learningmadeeasy education chat gpt https tmhyeqp https
- -[Review Text]: awesome this thanks putting this together chatgpt webdev azure https qaywjq
- -[Review Text]: apple conservative approach strategic move competitive disadvantage tech giant cautious stance raises questions about ability compete with industry giants https ucdripat apple siri chatgpt https cbuglsrgkx
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- -[Review Text]: exciting news chatgpt fans there anyone jailbreak chatgpt with these techniques hello whole world possibilities chatbot technology like retweet pumped chatbots innovation https qfgpq omwm
- -[Review Text]: foward successful coder with learn coding online pursue degree spend hours practicing coding tell kids learn coding best coder than k chatgpt chatgpt
- -[Review Text]: ingliguori chatgpt language model developed openai become incredibly popular ability generate human like responses competent th at students using help with homework generativeai midjou https konemk
- -[Review Text]: chatgpt other Ilms work where they could next https whypkiipau
- -[Review Text]: tips using chatgpt brainstorm better https bolyn tpsn chatgpt openai chatgptnews usingofchatgpt useofchatgpt tech technology today news news elonmusk
- -[Review Text]: chatgpt prompt craft winning resume prompt what make this position resume better please provide specific suggestions rewrite experience with your suggestions please keep format attach resume chaingpt artificialintelligence
- -[Review Text]: chatgpt never disappoints https fchazso
- -[Review Text]: felt like hogwarts with casting today replit daysofcode daysofcode join https python developers softwaredevelopment replit chatgpt g hostwriteria
- -[Review Text]: cozied birdbox with eggs feeling grateful shelter from rain bluetit birdbox rainyday chatgpt watch live https rych birdsoftwitter openvin o springwatch nestbox python bluetit wildisles opencv https qtgwoqpy
- -[Review Text]: groupofseven advanced nations should adopt risk based regulation artificial intelligence their digital ministers agreed sunday europe an lawmakers hurry introduce aiact enforce rules emerging tools such chatgpt https bbquyzizj
- -[Review Text]: gonna refund chatgpt down whatshappening chatgpt
- -[Review Text]: tips know before using chatgpt marketing blogging marketing socialmedia https fxrfmke
- -[Review Text]: asking chatgpt inotify goes like lieeeeeee https
- -[Review Text]: feeding data into analytics engines models such chatgpt from openai could have unintended consequences dataprivacy read more d atasecurity blog dataprotection cyberresilience mycompany https jsbbmjj
- -[Review Text]: smart chatgpt become competent that chatgpt openai artificialintelligence chatgpt machinelearning deeplearning tech innovation pro gramming nocode coding daysofcode codenewbie https ncmtletc
- -[Review Text]: recent study shows that chatgpt significantly outperforms physicians quality empathy when answering online questions about medica I topics https ccpr mrcqb
- -[Review Text]: https iilavd chat considerations teacher friends chatgpt artteachers
- -[Review Text]: front back setup news java robotics bigdata python business photo serverless hacking csharp javascript news rappi nfts nodejs learn ing tech chatgpt programming crypto https rcipioblp
- -[Review Text]: asked chatgpt give piece advice would give someone just started using chatgpt aicommunity aiadvice here answer https fhwntjlceh
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- -[Review Text]: training course understanding what want action chatgpt type show python code calculator will produce list code that works ailearning openai chatgpt

-[Review Text]: generative boosts worker productivity first real world study adopting chatgpt miss boat innovation https

-[Review Text]: chatgpt fixedit three happy mice three happy mice they they farmer wife with carving knife cause them harm take their life they roam play with their tiny feet world that kind full peace

-[Review Text]: culex genus mosquito from latin word gnat midge pipiens species name which means piping whistling latin molestus means annoyin g troublesome latin thanks chatgpt

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-[Review Text]: content from chatgpt prompt mine chatgpt

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-[Review Text]: even writer found that using chatgpt sometimes slows down realize could written what needed much faster without saying useful tool make important funny point here

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[Povious Text]: access chatgpt been restored italy following initial italian datapretection authority over privacy concerns read this news article find me

-[Review Text]: access chatgpt been restored italy following initial italian dataprotection authority over privacy concerns read this news article find m ore https vehvav what your thoughts chatbots artificialintelligence

-[Review Text]: chatgpt openai artificialintelligence generativeai microsoft google autogpt generated beer pizza offer glimpse future film impressed they nowhere near photo realistic https ofkhzna

-[Review Text]: greg brockman showcased official version autogpt using chatgpt https ltukypcjsg gregbrockman

-[Review Text]: behind lawmakers challenge rein chatgpt generative tech chatgpt openai https://dx.

-[Review Text]: just work chatgpt also been game changer side hustles from optimizing blog posts creating captivating product listings generating meta data graphics create shaven much time hands

-[Review Text]: know that chatgpt conversationalist also learn adapt specific user preferences over time this allows increasingly personalized accura te interactions opening avenues human collaboration https dfxi

-[Review Text]: advantages email marketing software your business https idvsnwz emergingtech chatgpt email marketing software constantcontact mailchimp digitalmarketing sales technology coruzant the digitalexecutive

In [36]:

. .

```
# Remove the stop words of English in the Text
from nltk.corpus import stopwords
stop_words = stopwords.words('english')

for r in range(len(Cleaned_doc)):
    each_item = []
    for t in Cleaned_doc[r].split():
        if t not in stop_words:
            each_item.append(t)
        Cleaned_doc[r] = ''.join(each_item)

i = 0
for i in Cleaned_doc[:100]:
    print('-[Review Text]: ', i)
```

-[Review Text]: asked chatgpt would attend church generated pastor daysofcode python church religion stem tech bard chatgpt microsoft apple goo gle sunday pastor blacktechtwitter bwiai https betggguhjs

-[Review Text]: need consumer first approach consumer reports says gizmodo chatgpt openai https kulevgjahp

-[Review Text]: asked chatgpt difference somaliland somalia answer shockingly https mpjkwg

- -[Review Text]: rethinking safer really truthgpt https cqco tech artificialintelligence chatgpt generativeal openal digital innovation ethics bias algorithm s aiethics leadership https Irrnqzngoh
- -[Review Text]: chatgpt fraud https ydqbgrq chatgpt regulation artificialintelligence largelanguagemodel neuralnetworks promptengineering machinel earning deeplearning lawenforcement security cybersecurity
- -[Review Text]: chatgpt work https ydqbgrq chatgpt automation productivity aiproductivity jobproductivity businessmanagement smallbusiness execut ivemba executivetraining boardroom managementscience artificialintelligence
- -[Review Text]: revolutionize workflow sopbox chrome extension consolidates company sops teal side screen integrated chatgpt seamless access k nowledge check https xbrysgsxr productivity efficiency https ismhnv
- -[Review Text]: revolutionize workflow sopbox chrome extension consolidates company sops teal side screen integrated chatgpt seamless access k nowledge check https dlegdbc productivity efficiency https cnpoexijp
- -[Review Text]: chatgpt prompt improve writing getting feedback prompt paste writing proofread writing grammar spelling mistakes make suggestion s improve clarity writing bruins conevisland wwedraft thelastdrivein
- -[Review Text]: chatgpt asked person commit suicide unplug
- -[Review Text]: buying drop repost follow midjourney stablediffusion dart chatgpt digitalart nftgiveaway money azuki bayc nfts nftshill polygonnft tezo snft ethereumnfts
- -[Review Text]: dubai building rotating skyscraper engineering bulding smarthome marketing fintech generativeai fintech metaverse chatgpt ehealth enricomolinari https ejcgkvjwth
- -[Review Text]: chatgpt cking magical word wizard write kicked chatgpt setting internet ablaze like goddamn wildfire good kind course people everyw here lost dived openai https
- -[Review Text]: groupofseven advanced nations adopt risk based regulation artificial intelligence digital ministers agreed sunday european lawmaker s hurry introduce enforce rules emerging tools chatgpt https jjrlta https odkpv
- -[Review Text]: interest implementation chatgpt generative artificialintelligence broadly ramps concern privacy trust calls regulation https wrhgywiant
- -[Review Text]: prompt write funny cartoon caption description happening panel chatgpt caption smartphone addiction description person sleeping p hone hand speech bubble saying goodnight social life
- -[Review Text]: assistant blow mind minute live demo https xwchbo youtube technology edtech chatgpt eonreality
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- -[Review Text]: chatgpt stands ready help https nppf
- -[Review Text]: funny funny artificial intelligence funny microsoft chatgpt https zmbv
- -[Review Text]: writing wordpress blocks chatgpt need specific otherwise writes code know need clearly holy writes awesome block code works https fopppdnrty
- -[Review Text]: keri guilbault jhusoe program lead gifted education graduate program discusses ideas using chatgpt advanced academic courses ed ucator spencer burrows recent blog post https zugm https xnoidrqnau
- -[Review Text]: bybit recommendation long ticker linausdt minute candle last price powered chatgpt lina lina https xdew
- -[Review Text]: economists warn like chatgpt increase inequality gizmodo chatgpt openai https uxeicnpbmf
- -[Review Text]: focus bots like chatgpt threaten humanity left unchecked kyodo news plus chatgpt openai https zftigmomlo
- -[Review Text]: meanwhile chatgpt iceberg provide mind blowing tools better chatgpt client also available mobile need take peek cause vast case htt ps uxut opxqa https yqcsqli
- -[Review Text]: asked chatgpt tell sunday cheese crackers magnet magnetcolchester colchesterbusiness colchesterpub colchester essexpub chatgp t cheeseandcrackers micropub sunday https bgqxuj
- -[Review Text]: ojamu announces alphie launch latest driven smart tool blockchain industry integrated chatgpt https gyevpjfy
- -[Review Text]: test knowledge powered exams take learning next level challenge aiexams learningmadeeasy education chatgpt https tmhyeqp https
- -[Review Text]: awesome thanks putting together chatgpt webdev azure https qaywjq
- -[Review Text]: apple conservative approach strategic move competitive disadvantage tech giant cautious stance raises questions ability compete in dustry giants https ucdripat apple siri chatgpt https cbuglsrgkx
- -[Review Text]: chatgpt help lottery telegram group provides real time testing https jbzgpglp chatgpt lottery gamefi https jifeo
- -[Review Text]: exciting news chatgpt fans anyone jailbreak chatgpt techniques hello whole world possibilities chatbot technology like retweet pumpe d chatbots innovation https qfgpg omwm
- -[Review Text]: foward successful coder learn coding online pursue degree spend hours practicing coding tell kids learn coding best coder thank chatgpt chatgpt
- -[Review Text]: ingliguori chatgpt language model developed openai become incredibly popular ability generate human like responses competent st udents using help homework generativeai midjou https konemk
- -[Review Text]: chatgpt Ilms work could next https whypkiipau
- -[Review Text]: tips using chatgpt brainstorm better https bolyn tpsn chatgpt openai chatgptnews usingofchatgpt useofchatgpt tech technology today news news elonmusk
- -[Review Text]: chatgpt prompt craft winning resume prompt make position resume better please provide specific suggestions rewrite experience su ggestions please keep format attach resume chaingpt artificialintelligence
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- -[Review Text]: felt like hogwarts casting today replit daysofcode daysofcode join https python developers softwaredevelopment replit chatgpt ghost writeria
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- -[Review Text]: recent study shows chatgpt significantly outperforms physicians quality empathy answering online questions medical topics https ccp r mrcqb
- -[Review Text]: https iilavd chat considerations teacher friends chatgpt artteachers
- -[Review Text]: front back setup news java robotics bigdata python business photo serverless hacking csharp javascript news rappi nfts nodejs learn ing tech chatgpt programming crypto https rcipioblp
- -[Review Text]: asked chatgpt give piece advice would give someone started using chatgpt aicommunity aiadvice answer https fhwntjlceh
- -[Review Text]: chat facebook hack tell hack changes everything chatgpt https gwzfak
- -[Review Text]: government launches guide generative applications chatgpt gulf news chatgpt openai https
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- -[Review Text]: chatgpt fixedit three happy mice three happy mice farmer wife carving knife cause harm take life roam play tiny feet world kind full pe ace
- -[Review Text]: culex genus mosquito latin word gnat midge pipiens species name means piping whistling latin molestus means annoying troubleso me latin thanks chatgpt
- -[Review Text]: openal chatgpt awed public astonishing abilities thing though chatbot meaning face annie haired woman avatar powered chatgpt https://doi.org/10.1007/j.com
- -[Review Text]: autogpt strong tool surpasses chatgpt https qhkfky bingai chatgpt opensource ethicalai python tech chatgpt aiethics chatgpt code aic hat chatbot chatbotai bardai chatgpt
- -[Review Text]: agree dear chatgpt generativeai needs governance
- -[Review Text]: discover chatgpt revolutionising accounting world latest podcast episode learn practical tips potential dangers secret asking better questions embrace future accounting tune https weia valuepricingpodcast https qzkngytuxq
- -[Review Text]: google amazon microsoft meta bullish amid cost cutting measures chatgpt chatgpt chatgpt chatgpt microsoft autogpt artificialintellige nce generativeai chatbots bard bingai google aiartworks openai amazon meta https sfkg
- -[Review Text]: rumor chatgpt artificial intelligence revolution would cost openai million architecture based nvidia graphics card expensive operate art ificial intelligence would need graphics cards answer questions https vbmynmzdrv
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- -[Review Text]: people know chatgpt speed data science process using chatgpt https fxrsdhpsb
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- -[Review Text]: content chatgpt prompt mine chatgpt
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- -[Review Text]: even writer found using chatgpt sometimes slows realize could written needed much faster without saying useful tool make important funny point
- -[Review Text]: sell bybit recommendation short ticker bonkusdt minute candle last price powered chatgpt bonk bonk https ryvlbhez
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- -[Review Text]: chatgpt refuses teach summon harmless demons ready guide consider process gender transitioning world gone https olqd htqcc https ujav
- -[Review Text]: want understand give input chatgpt hour course https fcmpre
- -[Review Text]: timtalk envionmental carbon impact fowler https Idyaa socialselling digitalselling chatgpt artificialintelligence chatbot leadership cloud computing technology sustainability quantum computing strategy https zxgjwygqva
- -[Review Text]: work work writing reflection chatgpt great grammar corrections formatting creativity tool anyone understand write write speak https
- -[Review Text]: chatgpt openai artificialintelligence generativeai microsoft google autogpt software engineers panicking replaced still takes human au to code https avgud azna
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- -[Review Text]: chatgpt language model developed openai become incredibly popular ability generate human like responses competent students using help homework generativeai midjourney machinelearning https://doi.org/10.1016/j.j.com/10.1016
- -[Review Text]: chatgpt openai might unconscious artificial intelligence stop humans consciously asking lend hand like order make sure efficiency all ocation bank credit economy https qnryegxojg
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- -[Review Text]: chatgpt openai artificialintelligence generativeal microsoft google autogpt generated beer pizza offer glimpse future film impressed owhere near photo realistic https ofkhzna
- -[Review Text]: greg brockman showcased official version autogpt using chatgpt https://doi.org/10.1007/j.com/nan-
- -[Review Text]: behind lawmakers challenge rein chatgpt generative tech chatgpt openai https ihnxc bfhj
- -[Review Text]: work chatgpt also game changer side hustles optimizing blog posts creating captivating product listings generating meta data graphics create shaven much time hands
- -[Review Text]: know chatgpt conversationalist also learn adapt specific user preferences time allows increasingly personalized accurate interactions opening avenues human collaboration https dfxi
- -[Review Text]: advantages email marketing software business https idvsnwz emergingtech chatgpt email marketing software constantcontact mailc himp digitalmarketing sales technology coruzant the digitalexecutive

### In [37]:

# Count the number of occurances of words

 $from \ sklearn.feature\_extraction.text \ import \ {\tt CountVectorizer}$ 

count\_vectorizer = CountVectorizer()

 $count\_data = count\_vectorizer.fit\_transform(Cleaned\_doc)$ 

count data

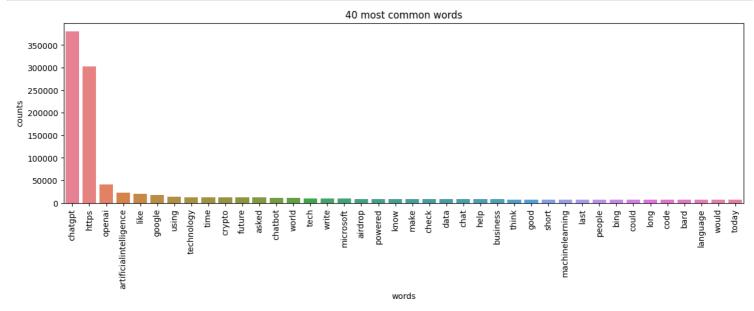
### Out[37]:

<319293x378121 sparse matrix of type '<class 'numpy.int64'>'

with 4063033 stored elements in Compressed Sparse Row format>

### In [38]:

```
# count the frequency of words
import numpy as np
import seaborn as sns
# Collection words of all text
terms = count_vectorizer.get_feature_names_out()
# count the popularity of each word
total_counts = np.zeros(len(terms))
for t in count_data:
  total_counts+=t.toarray()[0]
count_dict = (zip(terms, total_counts))
count_dict = sorted(count_dict, key=lambda x:x[1], reverse=True)[0:40] #Take the top 40 words
words = [w[0] for w in count_dict]
counts = [w[1] for w in count_dict]
x_pos = np.arange(len(words))
plt.figure(2, figsize=(15, 4))
plt.subplot(title='40 most common words')
sns.set_context("notebook", font_scale=1.25, rc={"lines.linewidth": 2.5})
sns.barplot(x=x_pos,y=counts, palette='husl')
plt.xticks(x_pos, words, rotation=90)
plt.xlabel('words')
plt.ylabel('counts')
plt.show()
```



### In [39]:

```
## Filter out the words whose frequency is too high or too low.
keepIndex = [];
for t in range(len(total_counts)):
    if total_counts[t] < 15000 and total_counts[t] > 50:
        keepIndex.append(t)

print('Number after filtering: ', len(keepIndex))

#Save the remain ing term and frequency data
ReducedTerm = [terms[t] for t in keepIndex]
ReducedCount = count_data[:,keepIndex]
ReducedCount
```

Number after filtering: 6522

### Out[39]:

<319293x6522 sparse matrix of type '<class 'numpy.int64'>' with 2689728 stored elements in Compressed Sparse Row format>

### In [40]:

ReducedTerm

### Out[40]: ['aachen', 'aapl', 'aaron', 'abilities', 'ability', 'able', 'absolute', 'absolutely', 'abstract', 'abstracts', 'absurd', 'abuse', 'abused', 'academia', 'academic'. 'academicchatter', 'academicintegrity', 'academics', 'academictwitter', 'academy', 'accelerate', 'accelerated', 'accelerating', 'acceleration', 'accept', 'acceptable', 'accepted', 'accepting', 'access', 'accessibility', 'accessible', 'accessing', 'accident', 'accidentally', 'accomplish', 'according', 'account', 'accountability', 'accountants', 'accounting', 'accounts', 'accuracy', 'accurate', 'accurately', 'accused'. 'achieve', 'achieved', 'achievement', 'achieving', 'acknowledge', 'acquire', 'acquired', 'acquisition', 'across', 'acting', 'action', 'actions', 'active', 'actively', 'activities', 'activity', 'actor', 'actors', 'actress', 'acts', 'actual', 'actually', 'adam', 'adani', 'adapt', 'adapting', 'added', 'addicted', 'addiction', 'addictive', 'adding', 'addition', 'additional', 'additionally',

```
celebrity,
'cell',
'cells',
'celr',
'censored',
'censorship',
'center'.
'centers',
'central',
'centre',
'centric',
'cents',
'century',
'ceos',
'ceptbiro',
'certain',
'certainly',
'certification',
'cgpt',
'cgxhqe',
'chad',
'chai',
'chain',
'chaingpt',
'chainlink',
'chair',
'chairesearch',
'chairman',
'challenge',
'challenged',
'challenges',
'challenging',
'championsleague',
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'chatbotai',
'chatbotdevelopment',
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'chatgptai',
'chatgptapi',
'chatgptassistedwriting',
'chatgptbook',
'chatgptbot',
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'chatgptdown',
'chatgpteducation',
'chatgptexplained',
'chatgptgod',
'chatgptguide',
'chatgptnews',
'chatgptplus',
'chatgptpro',
'chatgptprompts',
'chatgpts',
'chatgptsays',
'chatgpttutorial',
'chatgtp',
'chatgtpebook',
```

```
'chats',
'chatsonic',
'chatted',
'chatter',
'chatting',
'cheap',
'cheaper',
'cheat',
'cheating'.
'cheatlayer'.
'cheatsheet',
...]
In [41]:
# Import LDA to analyze the weight of each word
from sklearn.decomposition import LatentDirichletAllocation as LDA
number_topics = 10
lda = LDA(n_components=number_topics, n_jobs=-1)
Ida.fit(ReducedCount)
lda.components_
Out[41]:
array([[ 0.1
               , 0.10000274, 0.10001915, ..., 21.74370628,
     0.1
            , 0.10000226],
            ,\ 0.10000294,\ 0.10000154,...,\ 0.10000423,
    [ 0.1
     0.1
            , 0.1000089],
            , 0.1000047, 0.10000524, ..., 0.10001946,
    [ 0.1
     0.1
            , 0.10001104],
            ,\ 0.10000148,\ 0.10003381,...,\ 11.40655923,
    [ 0.1
     0.1
            , 0.10000108],
    [ 0.1
            , 0.10000152, 0.10006304, ..., 88.46919931,
     0.1
           , 0.10000832],
           , 0.100001 , 0.1000036 , ..., 0.33674447,
    [ 0.1
            , 0.10001426]])
     0.1
In [42]:
Word_Topics_Pro = Ida.components_/ Ida.components_.sum(axis=1)[:, np.newaxis]
print(Word_Topics_Pro)
[[4.26214959e-07 4.26226622e-07 4.26296589e-07 ... 9.26749286e-05
 4.26214958e-07 4.26224600e-07]
[9.08103184e-07 9.08129903e-07 9.08117127e-07 ... 9.08141567e-07
 9.08103183e-07 9.08184047e-07]
[4.23102580e-07 4.23122453e-07 4.23124754e-07 ... 4.23184920e-07
 4.23102579e-07 4.23149298e-07]
[4.82422484e-07 4.82429639e-07 4.82585606e-07 ... 5.50278063e-05
 4.82422483e-07 4.82427697e-07]
[2.99951509e-07 2.99956063e-07 3.00140605e-07 ... 2.65364698e-04
 2.99951509e-07 2.99976467e-07]
[4.44837417e-07 4.44841856e-07 4.44853422e-07 ... 1.49796541e-06
 4.44837417e-07 4.44900832e-07]]
In [43]:
## Words of Topic sequence
for topic_idx, topic in enumerate(Word_Topics_Pro):
  print("\nTopic #%d:" % topic_idx)
  count_dict = (zip(ReducedTerm, topic))
  count_dict = sorted(count_dict, key=lambda x:x[1], reverse=True)[0:5]
  for w in count dict:
    print(w[0], ': {0:.3f}'.format(w[1]))
Topic #0:
```

Topic #1: last : 0.068

business: 0.026 technology: 0.024 marketing: 0.017 chatbot: 0.015 prompts: 0.015

'chatgtpebooks', 'chathot',

powered: 0.067 short: 0.066 long: 0.065 price: 0.053

Topic #2: content : 0.028 world : 0.017 data : 0.015 writing : 0.014 users : 0.014

Topic #3: crypto: 0.065 airdrop: 0.050 bitcoin: 0.025 future: 0.022 doge: 0.020

Topic #4: microsoft : 0.040 bing : 0.031 bard : 0.030 search : 0.028 chatbot : 0.015

Topic #5: asked : 0.013 write : 0.009 using : 0.007 would : 0.007 think : 0.006

Topic #6: free: 0.036 news: 0.029 trading: 0.025 stocks: 0.022 options: 0.018

Topic #7: education: 0.021 students: 0.014 jobs: 0.011 going: 0.010 edtech: 0.010

Topic #8: future: 0.016 game: 0.014 language: 0.013 know: 0.009 check: 0.009

Topic #9:

machinelearning: 0.029 midjourney: 0.028 resume: 0.024 python: 0.020 aiart: 0.017

### In [44]:

df\_topic\_keywords = pd.DataFrame(Word\_Topics\_Pro) df\_topic\_keywords.columns = ReducedTerm

df\_topic\_keywords

### Out[44]:

	aachen	aapl	aaron	abilities	ability	able	absolute	absolutely	abstract	abstracts	 zapier	zdnet	
0	4.262150e- 07	4.262266e- 07	4.262966e- 07	6.205598e- 07	1.025935e- 04	8.419886e- 05	4.263732e- 07	4.262693e- 07	4.262320e- 07	4.262157e- 07	 4.025759e- 04	4.262394e- 07	4
1	9.081032e- 07	9.081299e- 07	9.081171e- 07	9.081413e- 07	9.081291e- 07	9.081431e- 07	9.081305e- 07	9.081528e- 07	9.081276e- 07	9.081091e- 07	 9.081106e- 07	9.081032e- 07	9
2	4.231026e- 07	4.231225e- 07	4.231248e- 07	4.452703e- 06	3.322027e- 04	4.702099e- 04	1.874448e- 06	4.232483e- 07	4.232055e- 07	2.282031e- 04	 4.231157e- 07	5.517661e- 05	5
3	5.577760e- 07	8.679039e- 05	5.577846e- 07	5.577856e- 07	5.577970e- 07	5.579204e- 07	5.578266e- 07	5.848485e- 06	5.577915e- 07		 5.577805e- 07	5.577803e- 07	1
	0.544005	4.500005	4.000700	4.000004-	4.000004-	F F70FF0	4.0004.00	4 470004	4.000550	4.000544	4.000747	4.000007	

4	aachen	1.563825e- aapj	4.228786e- aaron	abilities	4.309304e- ability	5.578553e- <b>able</b>	absolute	absolutely	4.228550e- abstract	abstracts	 4.228/4/e- <b>zapie</b> r	4.230287e- <b>zdn<del>et</del></b>	4
5	1.100970e- 07	1.101015e- 07	9.570324e- 07	1.534277e- 04	9.590550e- 04	1.999737e- 03	8.994756e- 05	4.378610e- 04	1.210500e- 04	1.392000e- 06	 1.101024e- 07	1.101032e- 07	2
6	6.984668e- 07	8.783712e- 04	4.423433e- 04	7.029795e- 07	6.985188e- 07	7.015188e- 07	6.985303e- 07	8.612084e- 07	6.985327e- 07	6.984710e- 07	 6.984800e- 07	6.985065e- 07	6
7	4.824225e- 07	4.824296e- 07	4.825856e- 07	4.824757e- 07	4.824947e- 07	4.307048e- 05	5.786700e- 05	1.161600e- 04	4.824609e- 07	4.824340e- 07	 4.824306e- 07	4.824703e- 07	6
8	2.999515e- 07	2.999561e- 07	3.001406e- 07	4.974530e- 04	7.280160e- 04	3.426409e- 04	1.602576e- 04	3.347149e- 04	2.999772e- 07	2.999673e- 07	 2.999589e- 07	1.294560e- 04	2
9	4.448374e- 07	4.448419e- 07	4.448534e- 07	4.448731e- 07	4.448874e- 07	5.213138e- 07	2.190662e- 05	1.147985e- 04	2.680210e- 04	4.448488e- 07	 2.556148e- 05	4.448468e- 07	1

10 rows × 6522 columns

### In [45]:

plt.show()

```
# Draw the WordCloud for each topic
from wordcloud import WordCloud
import math
rows = math.ceil(len(lda.components_)/4)
fig, ax = plt.subplots(rows, 4, figsize=(15,2.5*rows))
[axi.set_axis_off() for axi in ax.ravel()]
for i, comp in enumerate(lda.components_):
  terms_comp = zip(ReducedTerm, abs(comp))
  sorted_terms = sorted(terms_comp, key= lambda x:x[1], reverse=True)[:5]
  # Dictionary the top 10 of the words in each topic
  Word_Frequency = dict(sorted_terms[0:10])
  # Generate WordCloud map
  wordcloud = WordCloud(background_color="white").generate_from_frequencies(Word_Frequency)
  # Visualization
  subfig_Row = math.floor(i/4)
  subfig\_Col = math.ceil(i\%4)
```

technology
marketing prompts
business

ax[subfig\_Row,subfig\_Col].imshow(wordcloud)

ax[subfig\_Row,subfig\_Col].set\_title("Topic {}".format(i+1))

long last price powered datawriting Content users world airdrop bitcoindoge Crypto

Topic 5
search
microsoft
chatbot
bing bard

Topic 6

Write

asked

Topic 7

fradingstocks

free su

news it

Topic 8
going
education
jobsedtech
students



Topic 10

midjourney
machinelearning
aiart python

### In [46]:

```
Cleaned_doc_new = []
print('CLEANED TEXT NEW: ')

for r in range(len(Cleaned_doc)):
    each_item = []
    for t in Cleaned_doc[r].split():
        # Save the lexicon of ReducedTerm
        if t in ReducedTerm:
            each_item.append(t)
        Cleaned_doc_new.append(each_item)
```

### print(Cleaned\_doc\_new[r]) CLEANED TEXT NEW: ['asked', 'would', 'attend', 'church', 'generated', 'daysofcode', 'python', 'church', 'religion', 'stem', 'tech', 'bard', 'microsoft', 'apple', 'sunday'] ['need', 'consumer', 'first', 'approach', 'consumer', 'reports', 'says'] ['asked', 'difference', 'answer'] ['safer', 'really', 'truthqpt', 'tech', 'generativeai', 'digital', 'innovation', 'ethics', 'bias', 'algorithms', 'aiethics', 'leadership'] ['fraud', 'ydqbgrq', 'regulation', 'largelanguagemodel', 'neuralnetworks', 'promptengineering', 'machinelearning', 'deeplearning', 'lawenforcement', 'secu rity', 'cybersecurity'] ['work', 'ydqbgrq', 'automation', 'productivity', 'aiproductivity', 'jobproductivity', 'businessmanagement', 'smallbusiness', 'executivemba', 'executivetraini ng', 'boardroom', 'managementscience'] ['revolutionize', 'workflow', 'chrome', 'extension', 'company', 'side', 'screen', 'integrated', 'seamless', 'access', 'knowledge', 'check', 'productivity', 'efficie ncy'] ['revolutionize', 'workflow', 'chrome', 'extension', 'company', 'side', 'screen', 'integrated', 'seamless', 'access', 'knowledge', 'check', 'productivity', 'efficie ncy'] ['prompt', 'improve', 'writing', 'getting', 'feedback', 'prompt', 'paste', 'writing', 'writing', 'grammar', 'spelling', 'mistakes', 'make', 'suggestions', 'improve', 'c larity', 'writing'] ['asked', 'person', 'commit'] ['buying', 'drop', 'repost', 'follow', 'midjourney', 'stablediffusion', 'dart', 'digitalart', 'nftgiveaway', 'money', 'azuki', 'bayc', 'nfts', 'nftshill', 'polygonnft', 'tezos nft', 'ethereumnfts'] ['dubai', 'building', 'engineering', 'marketing', 'fintech', 'generativeai', 'fintech', 'metaverse', 'ehealth', 'enricomolinari'] ['magical', 'word', 'wizard', 'write', 'kicked', 'setting', 'internet', 'good', 'kind', 'course', 'people', 'everywhere', 'lost'] ['advanced', 'nations', 'adopt', 'risk', 'based', 'regulation', 'artificial', 'intelligence', 'digital', 'agreed', 'sunday', 'european', 'lawmakers', 'hurry', 'introduce', 'rules', 'emerging', 'tools'] ['interest', 'implementation', 'generative', 'concern', 'privacy', 'trust', 'calls', 'regulation'] ['prompt', 'write', 'funny', 'cartoon', 'caption', 'description', 'happening', 'panel', 'caption', 'smartphone', 'addiction', 'description', 'person', 'sleeping', 'pho ne', 'hand', 'speech', 'bubble', 'saying', 'social', 'life'] ['assistant', 'blow', 'mind', 'minute', 'live', 'demo', 'youtube', 'technology', 'edtech'] ['serious', 'hand', 'bard', 'quite', 'entertaining', 'googlebard'] ['questions', 'answers', 'detect', 'fake', 'datascientists', 'edition', 'part', 'datascience'] ['upcoming', 'webinar', 'thursday', 'register', 'edtech', 'universities', 'education', 'remoteproctoring', 'automation', 'chatbot', 'highered'] ['stands', 'ready', 'help'] ['funny', 'funny', 'artificial', 'intelligence', 'funny', 'microsoft'] ['writing', 'wordpress', 'blocks', 'need', 'specific', 'otherwise', 'writes', 'code', 'know', 'need', 'clearly', 'holy', 'writes', 'awesome', 'block', 'code', 'works'] ['program', 'lead', 'education', 'graduate', 'program', 'discusses', 'ideas', 'using', 'advanced', 'academic', 'courses', 'educator', 'recent', 'blog', 'post'] ['bybit', 'recommendation', 'long', 'ticker', 'minute', 'candle', 'last', 'price', 'powered', 'lina', 'lina'] ['warn'. 'increase'] ['focus', 'bots', 'threaten', 'humanity', 'left', 'news', 'plus'] ['meanwhile', 'iceberg', 'provide', 'mind', 'blowing', 'tools', 'better', 'client', 'also', 'available', 'mobile', 'need', 'take', 'peek', 'cause', 'vast', 'case'] ['asked', 'tell', 'sunday', 'cheese', 'sunday'] ['announces', 'launch', 'latest', 'driven', 'smart', 'tool', 'blockchain', 'industry', 'integrated'] ['test', 'knowledge', 'powered', 'exams', 'take', 'learning', 'next', 'level', 'challenge', 'education'] ['awesome', 'thanks', 'putting', 'together', 'webdev', 'azure'] ['apple', 'conservative', 'approach', 'strategic', 'move', 'competitive', 'tech', 'giant', 'cautious', 'stance', 'raises', 'questions', 'ability', 'compete', 'industry', ' giants', 'apple', 'siri'] ['help', 'lottery', 'telegram', 'group', 'provides', 'real', 'time', 'testing', 'lottery', 'gamefi'] ['exciting', 'news', 'fans', 'anyone', 'jailbreak', 'techniques', 'hello', 'whole', 'world', 'possibilities', 'chatbot', 'technology', 'retweet', 'chatbots', 'innovation'] ['successful', 'coder', 'learn', 'coding', 'online', 'degree', 'spend', 'hours', 'coding', 'tell', 'kids', 'learn', 'coding', 'best', 'coder', 'thank'] ['language', 'model', 'developed', 'become', 'incredibly', 'popular', 'ability', 'generate', 'human', 'responses', 'students', 'using', 'help', 'homework', 'gener ativeai'] ['llms', 'work', 'could', 'next'] ['tips', 'using', 'brainstorm', 'better', 'chatgptnews', 'tech', 'technology', 'news', 'elonmusk'] ['prompt', 'craft', 'winning', 'resume', 'prompt', 'make', 'position', 'resume', 'better', 'please', 'provide', 'specific', 'suggestions', 'rewrite', 'experience', 'sug gestions', 'please', 'keep', 'format', 'resume', 'chaingpt'] ['never'] ['felt', 'today', 'daysofcode', 'daysofcode', 'join', 'python', 'developers', 'softwaredevelopment'] ['birdbox', 'eggs', 'feeling', 'grateful', 'rain', 'bluetit', 'birdbox', 'watch', 'live', 'rych', 'birdsoftwitter', 'openvino', 'springwatch', 'nestbox', 'python', 'bluetit', 'wi Idisles', 'opency'] ['advanced', 'nations', 'adopt', 'risk', 'based', 'regulation', 'artificial', 'intelligence', 'digital', 'agreed', 'sunday', 'european', 'lawmakers', 'hurry', 'introduce', 'rules', 'emerging', 'tools'] ['gonna'] ['tips', 'know', 'using', 'marketing', 'blogging', 'marketing', 'socialmedia']

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                                                                                                                                                                            l Þ
```

### In [47]:

### import gensim.corpora as corpora # Sort the each words in the Text # Construct a dictionary of {Term : Index}

id2word = corpora.Dictionary(Cleaned doc new)

print(id2word.token2id)

{'apple': 0, 'asked': 1, 'attend': 2, 'bard': 3, 'church': 4, 'daysofcode': 5, 'generated': 6, 'microsoft': 7, 'python': 8, 'religion': 9, 'stem': 10, 'sunday': 11, 'tec h': 12, 'would': 13, 'approach': 14, 'consumer': 15, 'first': 16, 'need': 17, 'reports': 18, 'says': 19, 'answer': 20, 'difference': 21, 'aiethics': 22, 'algorithms': 23, 'bias': 24, 'digital': 25, 'ethics': 26, 'generativeai': 27, 'innovation': 28, 'leadership': 29, 'really': 30, 'safer': 31, 'truthgpt': 32, 'cybersecurity': 33, 'deepl earning': 34, 'fraud': 35, 'largelanguagemodel': 36, 'lawenforcement': 37, 'machinelearning': 38, 'neuralnetworks': 39, 'promptengineering': 40, 'regulati

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ning': 49, 'jobproductivity': 50, 'managementscience': 51, 'productivity': 52, 'smallbusiness': 53, 'work': 54, 'access': 55, 'check': 56, 'chrome': 57, 'comp
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ence': 172, 'datascientists': 173, 'detect': 174, 'edition': 175, 'fake': 176, 'part': 177, 'questions': 178, 'chatbot': 179, 'education': 180, 'highered': 181, 're
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me': 191, 'block': 192, 'blocks': 193, 'clearly': 194, 'code': 195, 'holy': 196, 'know': 197, 'otherwise': 198, 'specific': 199, 'wordpress': 200, 'works': 201, 'writes': 202, 'academic': 203, 'blog': 204, 'courses': 205, 'discusses': 206, 'educator': 207, 'graduate': 208, 'ideas': 209, 'lead': 210, 'post': 211, 'progra
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kers': 698, 'information': 699, 'malware': 700, 'always': 701, 'came': 702, 'earlier': 703, 'later': 704, 'least': 705, 'logic': 706, 'outputs': 707, 'quick': 708, 's
tart': 709, 'address': 710, 'aims': 711, 'different': 712, 'dive': 713, 'existing': 714, 'limitations': 715, 'maximum': 716, 'seeking': 717, 'thread': 718, 'vision':
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iprm': 730, 'curated': 731, 'saas': 732, 'templates': 733, 'blue': 734, 'complexity': 735, 'created': 736, 'decent': 737, 'explaining': 738, 'functions': 739, 'po
licies': 740, 'rather': 741, 'review': 742, 'script': 743, 'shit': 744, 'starts': 745, 'explain': 746, 'guidelines': 747, 'love': 748, 'obviously': 749, 'politics': 750,
purposes': 751, 'computervision': 752, 'diffusion': 753, 'expected': 754, 'experimented': 755, 'fascinating': 756, 'image': 757, 'pass': 758, 'stable': 759, 't
ags': 760, 'worked': 761, 'background': 762, 'believe': 763, 'certain': 764, 'come': 765, 'database': 766, 'freaking': 767, 'implemented': 768, 'names': 769
, structure': 770, 'amazing': 771, 'days': 772, 'developer': 773, 'iteration': 774, 'laravel': 775, 'lowcode': 776, 'machine': 777, 'oracle': 778, 'reactjs': 779,
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decades': 801, 'overnight': 802, 'research': 803, 'sensation': 804, 'icymi': 805, 'utilized': 806, 'actually': 807, 'explores': 808, 'futures': 809, 'highereducat
ion': 810, 'idea': 811, 'looking': 812, 'mean': 813, 'quickly': 814, 'sector': 815, 'shape': 816, 'storm': 817, 'taking': 818, 'whilst': 819, 'alternative': 820, 'open': 821, 'startup': 822, 'addressing': 823, 'advancements': 824, 'competition': 825, 'free': 826, 'primary': 827, 'problems': 828, 'right': 829, 'subscribe': 83
0, 'phishing': 831, 'across': 832, 'categories': 833, 'engine': 834, 'present': 835, 'search': 836, 'serves': 837, 'stopped': 838, 'unlimited': 839, 'updated': 8
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```

```
ologies': 879, 'actors': 880, 'attacks': 881, 'infosec': 882, 'ways': 883, 'biases': 884, 'cognitive': 885, 'contain': 886, 'designed': 887, 'trained': 888, 'conve
rsation': 889, 'grasp': 890, 'highly': 891, 'queries': 892, 'recommend': 893, 'solutions': 894, 'truly': 895, 'prediction': 896, 'true': 897, 'wonder': 898, 'answ
ered': 899, 'board': 900, 'certification': 901, 'choice': 902, 'conducted': 903, 'correctly': 904, 'exam': 905, 'multiple': 906, 'nearly': 907, 'practice': 908, 'sc
ores': 909, 'text': 910, 'japan': 911, 'responsible': 912, 'plugin': 913, 'sucks': 914, 'blogs': 915, 'consulting': 916, 'edchat': 917, 'guest': 918, 'services': 91
9, 'cons': 920, 'exploring': 921, 'pros': 922, 'digitaletransformation': 923, 'digitalisierung': 924, 'ecommerce': 925, 'integration': 926, 'plugins': 927, 'avera
ge': 928, 'educate': 929, 'engineer': 930, 'explosion': 931, 'hear': 932, 'keen': 933, 'massive': 934, 'platform': 935, 'release': 936, 'roles': 937, 'seen': 938
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netics': 948, 'wired': 949, 'aitools': 950, 'copyright': 951, 'copyrighted': 952, 'fair': 953, 'intellectual property': 954, 'equal': 955, 'global': 956, 'share': 957,
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ents': 997, 'allow': 998, 'automatically': 999, 'dapps': 1000, 'implement': 1001, 'maybe': 1002, 'shine': 1003, 'space': 1004, 'countries': 1005, 'well': 1006
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097, 'failures': 1098, 'london': 1099, 'realise': 1100, 'think': 1101, 'agrees': 1102, 'actor': 1103, 'alan': 1104, 'breakingnews': 1105, 'chatgptsays': 1106,
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'lawfirm': 1123, 'regulations': 1124, 'malicious': 1125, <sup>1</sup>ecosystem': 1126, 'affect': 1127, 'futuretech': 1128, 'googleai': 1129, 'lamda': 1130, 'deep': 1131,
'wait': 1132, 'credits': 1133, 'actively': 1134, 'attack': 1135, 'biased': 1136, 'brought': 1137, 'china': 1138, 'chinese': 1139, 'example': 1140, 'groups': 114
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history': 1152, 'past': 1153, 'players': 1154, 'yesterday': 1155, 'licensing': 1156, 'passed': 1157, 'relied': 1158, 'returns': 1159, 'chill': 1160, 'reminder': 1
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word': 1171, 'main': 1172, 'titles': 1173, 'tons': 1174, 'john': 1175, 'jokes': 1176, 'step': 1177, 'analysis': 1178, 'bring': 1179, 'inspire': 1180, 'call': 1181,
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aimusic': 1264, 'dreams': 1265, 'glitch': 1266, 'scifi': 1267, 'classrooms': 1268, 'india': 1269, 'power': 1270, 'transformative': 1271, 'generation': 1272, 'I
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```

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...]
```

from gensim.models.ldamodel import LdaModel

### 4. Use gensim to Evaluate the LDA Module

In [49]:

import gensim

```
from pprint import pprint
# Use gensim to create the objuct of LDA Module
Ida_model = LdaModel(corpus=Corpus, id2word=id2word,
             num_topics=10, random_state=100)
# Print out ten topics' keywords
pprint(lda_model.print_topics(num_words=10))
doc Ida = Ida model[Corpus]
 '0.031*"answer" + 0.014*"search" + 0.013*"chat" + 0.012*"right" + '
 '0.011*"getting" + 0.011*"able" + 0.010*"thought" + 0.010*"users" + '
 '0.009*"better" + 0.009*"questions""),
 '0.017*"know" + 0.016*"good" + 0.014*"code" + 0.013*"time" + 0.013*"asked" + '
 '0.012*"really" + 0.012*"think" + 0.011*"even" + 0.011*"people" + '
 '0.010*"write"').
 '0.054*"last" + 0.049*"long" + 0.047*"time" + 0.038*"short" + '
 '0.029*"stackoverflow" + 0.027*"news" + 0.024*"essays" + 0.024*"campaign" + '
 '0.021*"powered" + 0.016*"stack"'),
(3,
 '0.029*"dalle" + 0.029*"future" + 0.026*"twitter" + 0.022*"imagine" + '
 '0.018*"created" + 0.016*"style" + 0.013*"ideas" + 0.012*"marketing" + '
 '0.012*"amazing" + 0.011*"check"'),
 '0.026*"mind" + 0.016*"feel" + 0.014*"power" + 0.013*"correct" + '
 '0.012*"play" + 0.011*"examples" + 0.011*"blowing" + 0.011*"wait" + '
 '0.009*"link" + 0.008*"error"'),
 '0.019*"intelligence" + 0.016*"join" + 0.016*"artificial" + 0.014*"crypto" + '
 '0.014*"bitcoin" + 0.014*"wrote" + 0.012*"python" + 0.010*"done" + '
 '0.010*"future" + 0.010*"giveaway"'),
 '0.024*"write" + 0.024*"asked" + 0.016*"using" + 0.012*"question" + '
 '0.010*"help" + 0.010*"content" + 0.010*"questions" + 0.009*"create" + '
 '0.009*"writing" + 0.009*"make""),
 '0.044*"midjourney" + 0.039*"stablediffusion" + 0.023*"aiart" + '
 '0.022*"rlyimpqw" + 0.019*"guess" + 0.017*"innovation" + 0.017*"crazy" + '
 '0.014*"follow" + 0.014*"money" + 0.014*"thread""),
 '0.040*"language" + 0.027*"model" + 0.024*"machinelearning" + 0.022*"data" + '
 '0.020*"chatbot" + 0.019*"tech" + 0.018*"models" + 0.014*"based" + '
```

```
'0.020*"openaichatgpt" + 0.019*"perfect" + 0.018*"digital" + 0.017*"course" '
 '+ 0.015*"plan" + 0.014*"received" + 0.014*"fascinating"')]
In [50]:
# Use Cleaned_doc_new to Evaluate the Coherance Score
from gensim.models import CoherenceModel
coherence_model_lda = CoherenceModel(model=lda_model,
                     texts=Cleaned_doc_new,
                      dictionary=id2word,
                      coherence='c_v')
coherence_lda = coherence_model_lda.get_coherence()
print('\nCoherence Score: ', coherence_lda)
Coherence Score: 0.3751315105852465
In [51]:
# Find the best Topic
Topics = list(range(2, 11, 1))
coherence_scores = []
Trained Models = []
for top in Topics:
  Ida model = LdaModel(corpus=Corpus,
              id2word=id2word,
              num_topics=top,
              random state=100)
  # Keep the trained models
  Trained_Models.append(lda_model)
  # Compute coherence score for each model
  coherence_model_lda = CoherenceModel(model=lda_model,
                        texts=Cleaned_doc_new,
                        dictionary=id2word,
                        coherence='c_v')
  coherence = coherence_model_lda.get_coherence()
  # Save and print the coherence scores
  coherence_scores.append(coherence)
  print('Topic Number: {0} -- Coherence: {1}'.format(top, coherence))
Topic Number: 2 -- Coherence: 0.3445028557038753
Topic Number: 3 -- Coherence: 0.3374320967982157
Topic Number: 4 -- Coherence: 0.34378026359350944
Topic Number: 5 -- Coherence: 0.36653460651896913
Topic Number: 6 -- Coherence: 0.33506808810982286
Topic Number: 7 -- Coherence: 0.36629086055103005
Topic Number: 8 -- Coherence: 0.34463335478858764
Topic Number: 9 -- Coherence: 0.37677539213639427
Topic Number: 10 -- Coherence: 0.3751315105852465
In [52]:
plt.plot(coherence_scores)
plt.xticks(range(0,len(Topics)), Topics)
plt.title('Coherence Score by Topic Number', fontsize=16)
```

### Out[52]:

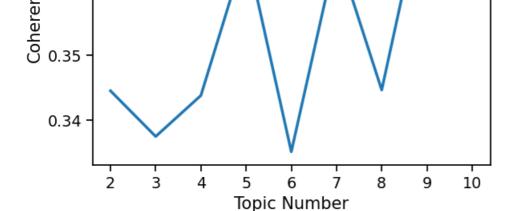
Text(0, 0.5, 'Coherence')

plt.xlabel('Topic Number') plt.ylabel('Coherence')

'0.014\*"smart" + 0.014\*"openaichat"'),

'0.092\*"world" + 0.040\*"business" + 0.031\*"technology" + '





### In [53]:

```
lda_model = Trained_Models[np.argmax(coherence_scores)]
# Show Top10 words in the topics
lda_model.show_topics(num_words=10)
```

```
Out[53]:
   '0.019*"wrote" + 0.016*"explain" + 0.015*"different" + 0.015*"done" + 0.014*"gave" + 0.013*"test" + 0.012*"script" + 0.012*"took" + 0.012*"else" + 0.
012*"twitter""),
  0.025*"asked" + 0.022*"write" + 0.013*"good" + 0.012*"using" + 0.012*"would" + 0.011*"know" + 0.011*"think" + 0.010*"people" + 0.009*"code" + 0.012*"would" + 0.011*"think" + 0.010*"people" + 0.012*"would" + 0.011*"think" + 0.010*"people" + 0.012*"would" + 0.011*"think" + 0.010*"people" + 0.012*"would" + 0.012*"would" + 0.011*"think" + 0.010*"people" + 0.010*"people" + 0.012*"would" + 0.012*"would" + 0.011*"think" + 0.010*"people" + 0.012*"would" + 0.012*"
008*"time"'),
  0.068*"poem" + 0.050*"last" + 0.048*"time" + 0.045*"long" + 0.035*"short" + 0.032*"guess" + 0.026*"stackoverflow" + 0.021*"conversations" + 0.01
9*"powered" + 0.018*"received""),
   0.027*"dalle" + 0.025*"future" + 0.020*"imagine" + 0.019*"seems" + 0.016*"join" + 0.013*"game" + 0.013*"thought" + 0.011*"rlyimpqw" + 0.011*"vid
eo" + 0.010*"twitter""),
   '0.024*"even" + 0.022*"question" + 0.019*"still" + 0.014*"answer" + 0.012*"replace" + 0.011*"wrong" + 0.011*"mind" + 0.011*"going" + 0.008*"able"
+ 0.008*"right""),
  '0.018*"language" + 0.018*"chatbot" + 0.015*"tech" + 0.015*"technology" + 0.014*"model" + 0.013*"intelligence" + 0.011*"artificial" + 0.010*"world"
+ 0.009*"future" + 0.009*"potential""),
   0.023*"asking" + 0.018*"business" + 0.016*"education" + 0.015*"marketing" + 0.014*"students" + 0.013*"learn" + 0.012*"world" + 0.012*"content" +
0.011*"writing" + 0.011*"free"'),
   0.042*"midjourney" + 0.037*"stablediffusion" + 0.034*"thread" + 0.024*"style" + 0.023*"aiart" + 0.020*"song" + 0.017*"make" + 0.015*"prompt" + 0.0
13*"money" + 0.012*"campaign"'),
  0.028*"crypto" + 0.026*"python" + 0.025*"bitcoin" + 0.024*"machinelearning" + 0.018*"giveaway" + 0.017*"blockchain" + 0.016*"coding" + 0.014*"s
mart" + 0.014*"metaverse" + 0.014*"openaichat"")]
```

### In []: