

```
import pandas as pd
import matplotlib.pyplot as plt
```

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

Mounted at /content/drive

```
data_path='/content/drive/My Drive/udemy_courses.csv'
data=pd.read_csv(data_path)
data
```

	course_id	course_title	url	is_paid	price	num
0	1070968	Ultimate Investment Banking Course	https://www.udemy.com/ultimate-investment-bank...	True	200	
1	1113822	Complete GST Course & Certification - Grow You...	https://www.udemy.com/goods-and-services-tax/	True	75	
2	1006314	Financial Modeling for Business Analysts and C...	https://www.udemy.com/financial-modeling-for-b...	True	45	
3	1210588	Beginner to Pro - Financial Analysis in Excel ...	https://www.udemy.com/complete-excel-finance-c...	True	95	
4	1011058	How To Maximize Your Profits Trading Options	https://www.udemy.com/how-to-maximize-your-pro...	True	200	
...	...	...	...	...	...	
3678	775618	Learn jQuery from Scratch - Master of JavaScri...	https://www.udemy.com/easy-jquery-for-beginner...	True	100	
3679	1088178	How To Design A WordPress Website With No Codi...	https://www.udemy.com/how-to-make-a-wordpress-...	True	25	
3680	635248	Learn and Build using Polymer	https://www.udemy.com/learn-and-build-using-po...	True	40	
3681	905096	CSS Animations: Create Amazing Effects on Your...	https://www.udemy.com/css-animations-create-am...	True	50	
3682	297602	Using MODX CMS to Build Websites: A Beginner's...	https://www.udemy.com/using-modx-cms-to-build-...	True	45	

3683 rows x 18 columns

Next steps:

Generate code with data

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```
data['course_title']
```

	course_title
0	Ultimate Investment Banking Course
1	Complete GST Course & Certification - Grow You...
2	Financial Modeling for Business Analysts and C...
3	Beginner to Pro - Financial Analysis in Excel ...
4	How To Maximize Your Profits Trading Options

ahmed mohamed

how explot colab notbook to github

Gemini

1. In your Google Colab notebook, click "File" in the main menu.
2. Select "Save a copy in GitHub" from the drop-down menu.
3. You may see a pop-up window asking you to allow pop-ups from Google Colab in your web browser. Choose to allow pop-ups.
4. A screen will appear asking where you want to save your Colab notebook in GitHub. Choose the repository you want to save it to.
5. You may be asked to authorize Google Colab to access your GitHub account. If so, follow the authorization steps.
6. Once you've chosen the repository and authorized access, click "OK" to save the notebook.

Your Colab notebook will be saved as a .ipynb file in the chosen GitHub repository.

Sources

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```

4      how to maximize your profits trading options
...
3678      Learn jQuery from Scratch - Master of JavaScri...
3679      How To Design A WordPress Website With No Codi...
3680      Learn and Build using Polymer
3681      CSS Animations: Create Amazing Effects on Your...
3682      Using MODX CMS to Build Websites: A Beginner's...
3683 rows × 1 columns

```

**dtype:** object

```

import nltk
from nltk.tokenize import word_tokenize
import string
from nltk.corpus import stopwords

# proces the text

data['course']=data['course_title'].str.lower() # lower the text

#build function to remove punctuation
def remove_punctuation(text):
    for punct in string.punctuation:
        text=text.replace(punct,'')
    return text

data['course']=data['course'].apply(remove_punctuation) # to apply the function and

data['course']=data['course'].apply(word_tokenize) # split the text for parts (token

# to build function to remove the stopwords
def remove_stop(text):
    stopword_dic=set(stopwords.words('english'))
    return[word for word in text if word not in stopword_dic]

data['course']=data['course'].apply(remove_stop) # to apply the function

# to build function to join the text again
def JOIN(text):
    return' '.join(text)
data['course']=data['course'].apply(JOIN)

data[['course_title','course']]

```

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index	course_title	cou
0	Ultimate Investment Banking Course	ultimate investment banking
1	Complete GST Course & Certification - Grow Your CA Practice	complete gst course certifica
2	Financial Modeling for Business Analysts and Consultants	financial modeling business
3	Beginner to Pro - Financial Analysis in Excel 2017	beginner pro financial analys
4	How To Maximize Your Profits Trading Options	maximize profits trading opti
5	Trading Penny Stocks: A Guide for All Levels In 2017	trading penny stocks guide I
6	Investing And Trading For Beginners: Mastering Price Charts	investing trading beginners r
7	Trading Stock Chart Patterns For Immediate, Explosive Gains	trading stock chart patterns i
8	Options Trading 3 : Advanced Stock Profit and Success Method	options trading 3 advanced s
9	The Only Investment Strategy You Need For Your Retirement	investment strategy need rei
10	Forex Trading Secrets of the Pros With Amazon's AWS	forex trading secrets pros ar
11	Trading Options With Money Flow	trading options money flow
12	Financial Management Risk and Return For Securities	financial management risk re
13	Forex Trading Course: Work Smarter Not Harder Proven Results	forex trading course work sn
14	Python Algo Trading: Sentiment Trading with News	python algo trading sentimen
15	Short Selling: Learn To Sell Stocks Before The Fall	short selling learn sell stock
16	Basic Technical Analysis: Learn the structure of the market	basic technical analysis lear
17	The Complete Chart Pattern Trading Course: A Proven Approach	complete chart pattern tradir
18	7 Deadly Mistakes of Investing that Will Slash Your Profits!	7 deadly mistakes investing
19	Financial Statements Made Easy	financial statements made e
20	Winning Forex Trading with Live Forex Trading Examples	winning forex trading live for
21	Forex Traders - Create Your First Trading Robot. No Coding!	forex traders create first trad
22	Create A Business From Home Trading Stocks Today In 2017	create business home tradin
23	Introduction to Accounting : Mastering Financial Statements	introduction accounting mas
24	The Complete Ethereum Course: Get .01 Ether In Your Wallet	complete ethereum course c

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 per page

1

2

tl

Like what you see? Visit the [data table notebook](#) to learn more about interactive tables.

```
nltk.download('punkt')
nltk.download('stopwords')

[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data] Package punkt is already up-to-date!
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Unzipping corpora/stopwords.zip.
True

#see the destribute the word in size the cleand text
from sklearn.feature_extraction .text import CountVectorizer

cv=CountVectorizer()
cv.fit_transform(data['course']).toarray()

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]])

vector=pd.DataFrame(cv.fit_transform(data['course']).toarray(),columns=cv.get_featur

#select the count of words:
ai=vector.sum().sort_values(ascending=False)
```

```

wor=[]
for col in vector.columns:
    x=vector[vector[col]==1].shape[0]
    wor.append(x)

my=pd.DataFrame({'word':vector.columns,'count':wor}).sort_values(by='count',ascending=

```

```
my==ai
```



```

-----
ValueError                                Traceback (most recent call last)
<ipython-input-47-474b915dc976> in <cell line: 1>()
----> 1 my==ai

----- 3 frames -----
/usr/local/lib/python3.10/dist-packages/pandas/core/frame.py in _align_for_op(se
level)
    7934         if not flex:
    7935             if not left.axes[axis].equals(right.index):
-> 7936                 raise ValueError(
    7937                     "Operands are not aligned. Do "
    7938                     "`left, right = left.align(right, axis=1, copy=F

ValueError: Operands are not aligned. Do `left, right = left.align(right, axis=1
operating.

```

Next steps: [Explain error](#)

```
ai.head(10)
```



```

      0
learn  509
trading 315
beginners 300
course  244
guitar  222
web     222
design   203
piano   194
complete 187
forex    173

dtype: int64

```

```
my.head(10)
```

1 to 10 of 1

index	word	
1907	learn	
402	beginners	
3279	trading	
800	course	
3502	web	
717	complete	
939	design	
1532	guitar	
516	build	
820	create	

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Like what you see? Visit the [data table notebook](#) to learn more about interactive tables.


Next step

Distributions


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```
plt.style.use('ggplot')
```



```
# distribut the word in the cleand text
vector.sum().sort_values(ascending=False)[:10].reset_index()['index']
```

	index
0	learn
1	trading
2	beginners
3	course
4	guitar
5	web
6	design
7	piano
8	complete
9	forex

dtype: object

▼ New Section

```
c=['#00ffff']
```

Start coding or [generate](#) with AI.