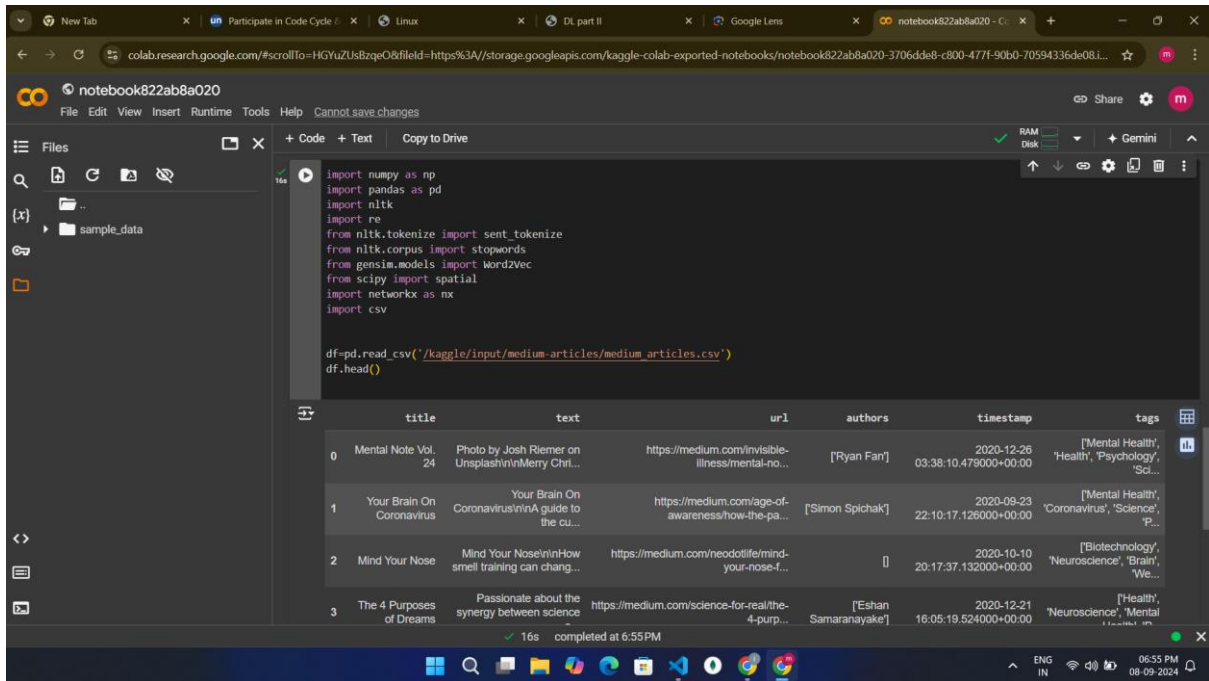


# Deep Learning 2

## Section -1

### 1. Initiating modules:



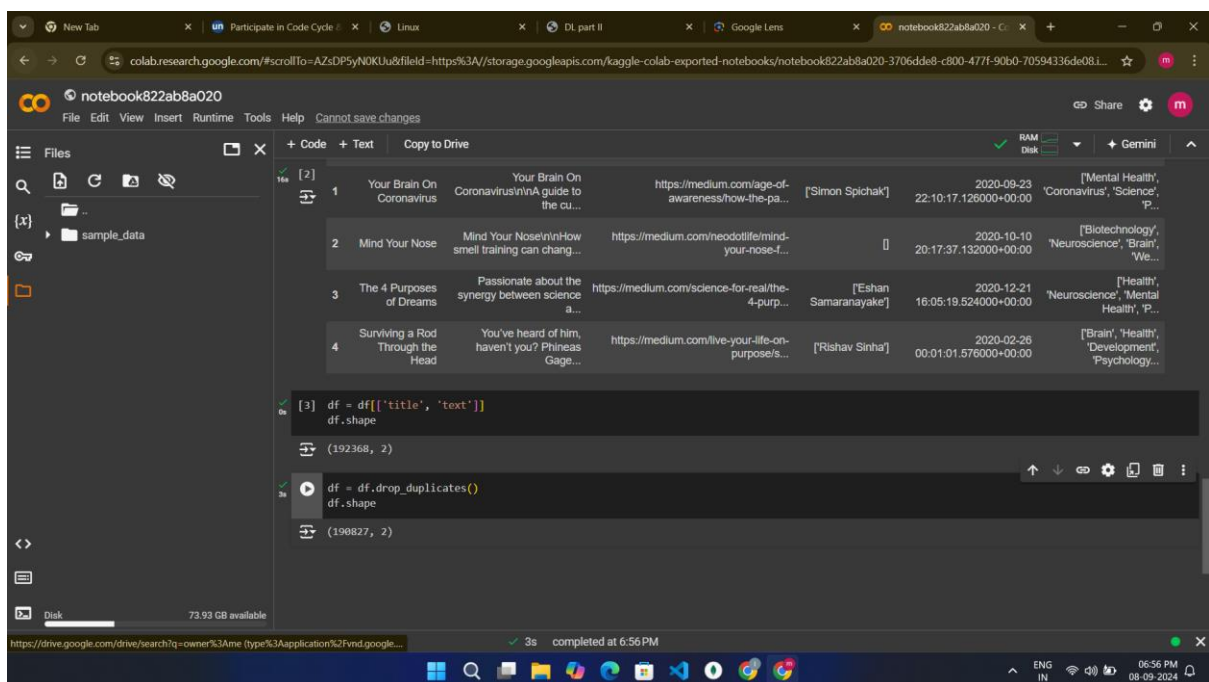
The screenshot shows a Google Colab notebook with the following code in the first cell:

```
import numpy as np
import pandas as pd
import nltk
import re
from nltk.tokenize import sent_tokenize
from nltk.corpus import stopwords
from gensim.models import Word2Vec
from scipy import spatial
import networkx as nx
import csv

df=pd.read_csv('/kaggle/input/medium-articles/medium_articles.csv')
df.head()
```

The output of the code is a DataFrame with the following columns: title, text, url, authors, timestamp, and tags. The first four rows of the DataFrame are displayed:

	title	text	url	authors	timestamp	tags
0	Mental Note Vol. 24	Photo by Josh Riemer on Unsplash/n/Merry Chrl...	https://medium.com/invisible-liness/mental-no...	[Ryan Fan]	2020-12-26 03:38:10.479000+00:00	['Mental Health', 'Health', 'Psychology', 'Sci...']
1	Your Brain On Coronavirus	Your Brain On Coronavirus/n/nA guide to the cu...	https://medium.com/age-of-awareness/how-the-pa...	[Simon Spichak]	2020-09-23 22:10:17.126000+00:00	['Mental Health', 'Coronavirus', 'Science', 'P...']
2	Mind Your Nose	Mind Your Nose/n/nHow smell training can chang...	https://medium.com/neodotlife/mind-your-nose-f...	[]	2020-10-10 20:17:37.132000+00:00	['Biotechnology', 'Neuroscience', 'Brain', 'We...']
3	The 4 Purposes of Dreams	Passionate about the synergy between science a...	https://medium.com/science-for-real/the-4-purp...	[Eshan Samaranayake]	2020-12-21 16:05:19.524000+00:00	['Health', 'Neuroscience', 'Mental Health', 'P...']



The screenshot shows the same Google Colab notebook with the following code in the second cell:

```
[2] df = df[['title', 'text']]
df.shape

(192368, 2)

df = df.drop_duplicates()
df.shape

(190827, 2)
```

The output of the code shows the shape of the DataFrame after removing duplicates, which is (190827, 2). The first four rows of the DataFrame are displayed:

	title	text
1	Your Brain On Coronavirus	Your Brain On Coronavirus/n/nA guide to the cu...
2	Mind Your Nose	Mind Your Nose/n/nHow smell training can chang...
3	The 4 Purposes of Dreams	Passionate about the synergy between science a...
4	Surviving a Rod Through the Head	You've heard of him, haven't you? Phineas Gage...

colab.research.google.com/#scrollTo=EUqwYy6A2fki&field=https%3A%2F%2Fstorage.googleapis.com%2Fkaggle-colab-exported-notebooks%2Fnotebook822ab8a020-3706dde8-c800-4771-90b0-70594336de08.jp...

notebook822ab8a020

File Edit View Insert Runtime Tools Help Cannot save changes

Files

sample\_data

+ Code + Text Copy to Drive

```
[33] try:
      scores = nx.pagerank(nx_graph, max_iter=1000, alpha=0.75)
    except nx.PowerIterationFailedConvergence as e:
      print(f"PageRank failed to converge: {e}")

    top_sentence = (sentence: scores[index] for index, sentence in enumerate(sentences))

    sentNeeded = round(0.25 * len(sentences)) - 1
    top = dict(sorted(top_sentence.items(), key=lambda x: x[1], reverse=True)[:sentNeeded])

    summary = ""
    for sent in sentences:
      if sent in top.keys():
        summary += sent

    print(summary)
```

RAM Disk

+ Gemini

How to Craft a Powerful Origin Story: The 5 Essential Elements

In strategic messaging and positioning engagements with CEOs, as well as business storytelling workshops for teams, I've helped hundreds of people.

1.Once upon a time...

How was your life before the life-changing event?Most importantly, what did you want back then?Share relevant details: How old were you?Then onw

Next, describe your life-changing event."Because of that..."

What relevant events were then set in motion?What obstacles did you have to overcome?), but much of it seems to apply to telling the story of a

last but not least, describe what you do now, and connect it to the story.Also, ask others to tell you their origin stories.As one woman in my r

Disk 73.88 GB available

0s completed at 7:31 PM

The screenshot shows a Google Colab notebook interface. The notebook is titled "notebook822ab8a020". It contains two visible cells. The first cell is a text cell with the title "[6] Swap Origin Stories with Others to Quickly Build Stronger Relationships" and a paragraph of text about drafting origin stories. The second cell is a code cell that performs the following operations:
 

- Imports `word_embeddings` from `word_embeddings` and `word_embeddings` from `word_embeddings`.
- Loads the file `sample_blog` into a variable `sentences`.
- Tokenizes `sentences` into `sentence_tokens` using `sent_tokenize`.
- Creates a `Word2Vec` model with `vector_size=1`, `min_count=1`, and `epochs=1000`.
- Generates word embeddings for each word in `sentence_tokens` using the `word_embeddings` model.
- Creates a matrix `sentence_embeddings` where each row is the embedding for a sentence.
- Prints the `sentence_embeddings` matrix.

 The output of the code cell shows a matrix of word embeddings. The status bar at the bottom indicates "Your session crashed after using all available RAM." and "1s completed at 7:11 PM".

