In [10]:
```python
#INPUT TEXT AND CONVERTING IT INTO EMBEDDING THEN COMPARING IT WITH TH
import pandas as pd
from ast import literal_eval
from sklearn.metrics.pairwise import cosine_similarity
import numpy as np
from sentence_transformers import SentenceTransformer
from IPython.display import display

# Load a pre-trained model
model = SentenceTransformer('paraphrase-MiniLM-L6-v2')

# Your input text
input_text = "The Central Valley is bracing for winter weather as a Wi

# Get the embedding for the input text
input_embedding = model.encode(input_text, convert_to_tensor=True)

# Reshape input_embedding to (N,) where N is the dimensionality of the
input_embedding = input_embedding.flatten().tolist()

df = pd.read_excel('file:///Users/varshithachintareddy/Desktop/file1.x

# Check if 'embedding' column exists in the DataFrame
if 'embedding' not in df.columns:
    raise ValueError("The 'embedding' column is missing in the DataFra

# Convert string representations of lists to actual lists
df['embedding'] = df['embedding'].apply(literal_eval)

similarity_scores = []

# List to store similarity vectors for each row (optional, for demonst
similarity_vectors = []

for _, row in df.iterrows():
    row_vector = np.array(row['embedding']).flatten().tolist()  # Conv

    # Check if the row vector is not empty
    if len(row_vector) == 0:
        raise ValueError("Empty embedding vector found in the DataFram

    similarity_vector = cosine_similarity([input_embedding], [row_vect
    similarity_scores.append(similarity_vector[0])
    similarity_vectors.append(similarity_vector)

df['similarity_score'] = similarity_scores

# Extract only the required columns
result_df = df[['id', 'text', 'embedding', 'similarity_score']]

# Display the result DataFrame
display(result_df)
```

	id	text	embedding	similarity_score
0	47	மேலே செல்ல ↑ All Rights Reserved	[-0.04924248, 0.005522531, -0.06635592, -0.012...	0.010084
1	48	Changes come into place from Saturday, Novembe...	[0.049829464, -0.053261593, -0.09513837, -0.04...	0.010023
2	49	Friday panned out to be a bit cooler, but temp...	[-0.0115406485, -0.049631882, -0.092242986, -0...	-0.016357
3	50	News 4 Buffalo Please enter a search term. Ple...	[0.032228705, -0.055055477, -0.10197034, -0.04...	-0.002003
4	51	News 4 Buffalo Please enter a search term. Ple...	[0.01952687, -0.027172226, -0.0996815, -0.0317...	0.019891
5	52	myMotherLode.com - The Mother Lode's Local New...	[-0.017283818, -0.015918337, -0.09694977, -0.0...	0.001967
6	53	Bulgaria's independent English-language news a...	[0.0037204523, -0.06229969, -0.066491805, -0.0...	0.015079
7	54	We've detected that JavaScript is disabled in ...	[0.0073352586, -0.040072165, -0.037280567, 0.0...	0.037834
8	55	We've detected that JavaScript is disabled in ...	[0.0073352586, -0.040072165, -0.037280567, 0.0...	0.037834
9	56	BRIDGEPORT, W.Va (WDTV) - Deputies responded t...	[0.066306695, -0.0804771, -0.13704686, -0.0152...	0.002481
10	57	Menu PHOENIX — Four people were injured after ...	[0.05763154, -0.082473196, -0.0873056, -0.0151...	-0.019661
11	58	Share this article A warning has been issued f...	[-0.0127190305, -0.030803522, -0.072223894, -0...	0.004426
12	59	West Mercia Police have issued a warning follo...	[0.054845158, -0.08123316, -0.08539247, -0.004...	0.014425
13	60	Gaza/Jerusalem: Israel issued a fresh warning ...	[0.011256479, -0.06646193, -0.10509538, -0.037...	0.030883
14	61	Gaza/Jerusalem: Israel issued a fresh warning ...	[0.017525535, -0.03962442, -0.1032773, -0.0267...	0.017195
15	62	We've detected that JavaScript is disabled in ...	[0.0073352586, -0.040072165, -0.037280567, 0.0...	0.037834
16	63	We've detected that JavaScript is disabled in ...	[0.0073352586, -0.040072165, -0.037280567, 0.0...	0.037834
17	64	WATCH LIVE A Chicago shooting left 1 dead and ...	[0.043469038, -0.0881574, -0.119400285, -0.012...	-0.003274
18	65	FOX31 Denver Please enter a search term. Pleas...	[0.037644353, -0.06886579, -0.10409101, -0.034...	-0.025578
19	66	Watch CBS News By Mamie Bah Updated on: Novemb...	[0.012960742, -0.07162758, -0.10352625, -0.042...	0.015827
20	67	Police search for suspect after shooting outsi...	[0.03078136, -0.0299192, -0.10529474, -0.02050...	-0.021623
21	68	Watch CBS News By Dean Fioresi November 17, 20...	[0.04173094, -0.039028905, -0.12773946, -0.025...	0.005667
22	69	Three people were shot in Landover, Maryland, ...	[0.039611295, -0.06455558, -0.073259324, -0.03...	0.008064
23	70	WATCH LIVE Two people were shot, one fatally, ...	[0.03363797, -0.054296535, -0.10495453, -0.028...	0.044392
24	71	Share One person is dead after a shooting at a...	[0.06613624, -0.03612103, -0.121509574, -0.021...	-0.011290

	id	text	embedding	similarity_score
25	72	LAKE COUNTY, Ohio (WOIO) - Mentor police are p...	[0.036700122, -0.02598707, -0.086251035, -0.02...	-0.021823
26	73	Slogan The Israeli occupation launched a drone...	[0.040773235, -0.04345863, -0.10118639, -0.008...	0.055064
27	74	- IMEMC News International Middle East Media C...	[0.025495049, -0.03127706, -0.093365185, -0.00...	0.021175
28	75	Kenya News Agency Information For Development ...	[0.03696517, -0.051857818, -0.056545854, -0.02...	-0.005276
29	76	மேலே செல்ல ↑ All Rights Reserved	[-0.04924248, 0.005522531, -0.06635592, -0.012...	0.010084
30	77	More weather alerts are in effect for the Mari...	[-0.019482758, -0.046755478, -0.08943024, -0.0...	0.007961
31	78	More weather alerts are in effect for the Mari...	[0.04813508, -0.048631098, -0.083489195, -0.03...	0.006220
32	79	More weather alerts are in effect for the Mari...	[0.043864463, -0.059047677, -0.13361841, -0.03...	-0.021798
33	80	Siliguri: Electronic goods inside about 40 hou...	[0.039553154, -0.03760822, -0.06756114, -0.015...	0.027526
34	81	We've detected that JavaScript is disabled in ...	[0.0073352586, -0.040072165, -0.037280567, 0.0...	0.037834
35	82	We've detected that JavaScript is disabled in ...	[0.0073352586, -0.040072165, -0.037280567, 0.0...	0.037834
36	83	ST. GEORGE — A winter storm warning is in effe...	[0.015459256, -0.032169495, -0.071525015, -0.0...	0.005609
37	84	The price of your membership is up to you — yo...	[0.024657503, -0.03676909, -0.09049683, -0.027...	0.020186
38	85	Posted: 01:00pm Sat 18 Nov, 2023 File photo. S...	[0.0025731483, -0.04217902, -0.10541018, -0.02...	-0.005928
39	86	Posted: 01:00pm Sat 18 Nov, 2023 File photo. S...	[0.017774351, -0.035888214, -0.06182054, -0.03...	0.006224
40	87	Posted: 01:00pm Sat 18 Nov, 2023 File photo. S...	[0.028999595, -0.056153357, -0.06384713, -0.03...	0.002164
41	88	Posted: 01:00pm Sat 18 Nov, 2023 File photo. S...	[0.03890874, -0.052830555, -0.09423651, -0.016...	-0.038701
42	89	We've detected that JavaScript is disabled in ...	[0.0073352586, -0.040072165, -0.037280567, 0.0...	0.037834
43	90	Halifax By CityNews Halifax staff Posted Nov 1...	[0.013398166, -0.066315204, -0.08737314, -0.03...	-0.021904
44	91	MANHATTAN BEACH, CA — The Los Angeles County D...	[0.010167331, -0.037039842, -0.098045185, -0.0...	0.032058
45	92	Startling maps have shown a 670-mile snow blan...	[0.021010473, -0.061866146, -0.07982095, -0.04...	0.004358

In [ ]: