This is a project by Sara Nimje - ssnimjee_b22@et.vjti.ac.in
https://colab.research.google.com/drive/1wcp6x-kXMvr6DuOCHzQwPwLC7Lopsj7q?
usp=sharing

Getting Started

```
!pip install transformers torch nltk feedparser googlesearch-python
scikit-learn gensim pandas==2.2.2

Requirement already satisfied: transformers in
/usr/local/lib/python3.11/dist-packages (4.48.3)
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>gensim) (1.17.2)
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/usr/local/lib/python3.11/dist-packages (from jinja2->torch) (3.0.2)
```

```python
import feedparser
import pandas as pd
import numpy as np
from transformers import pipeline
import requests
from bs4 import BeautifulSoup
import httpx
import concurrent.futures
from googlesearch import search
import re
import nltk
import gensim
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.decomposition import NMF
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize
from nltk.stem import WordNetLemmatizer
from gensim.models import LdaModel
```

```python
from gensim.corpora import Dictionary
import spacy
from collections import Counter
import json
from sklearn.feature_extraction.text import ENGLISH_STOP_WORDS
from sklearn.metrics.pairwise import cosine_similarity
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.decomposition import LatentDirichletAllocation
from sklearn.model_selection import RandomizedSearchCV
import matplotlib.pyplot as plt
import seaborn as sns
from tqdm import tqdm
```

Extracting Data

```python
# List of social media and non-news websites to exclude
excluded_domains = [
    "youtube.com", "en.wikipedia.org", "m.economictimes.com",
"www.prnewswire.com",
    "economictimes.indiatimes.com", "www.moneycontrol.com"
]

def get_top_articles(company_name):
    """Search for company news using Google."""
    query = f"{company_name} news"
    return [url for url in search(query, num_results=25)]

def is_valid_news_article(url, company_name):
    """Check if the URL is a valid news article and not an official
company website or social media."""
    try:
        domain = url.split('/')[2]
        if company_name.lower() in domain.lower() or
any(excluded_domain in domain for excluded_domain in
excluded_domains):
            return False
        return True
    except IndexError:
        return False  # Skip invalid URLs

def extract_article_data(url):
    """Extract article title, link, and website name from a valid
URL."""
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36"
    }

    try:
```

```python
        response = requests.get(url, headers=headers)
        response.raise_for_status()  # Handle HTTP errors

        soup = BeautifulSoup(response.content, 'html.parser')

        # Extract article title
        title = soup.title.string.strip() if soup.title else None
        source = url.split('/')[2]  # Extract domain

        # Validate extracted data
        if not title or not source:
            return None

        return {"title": title, "link": url, "source": source}

    except (requests.exceptions.RequestException, AttributeError):
        return None  # Skip articles with invalid data

def main(company_name):
    """Fetch and process valid news articles for the given company."""
    urls = get_top_articles(company_name)

    # Filter out invalid URLs
    valid_urls = [url for url in urls if is_valid_news_article(url,
company_name)]

    # Extract and validate article data
    articles_data = [extract_article_data(url) for url in valid_urls]
    articles_data = [article for article in articles_data if article]
# Remove None values

    # Create DataFrame only if valid articles exist
    if articles_data:
        df = pd.DataFrame(articles_data)
    else:
        df = pd.DataFrame(columns=["title", "link"])  # Empty
DataFrame

    return df

company_name = input('Give name of company: ')
df = main(company_name)
```

Give name of company: Zomato

df

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```
over Zomato spillage issue: \\u2018Need contact details of senior
manager\\u2019 | Trending - Hindustan Times\",\n          \"Zomato
share price surges over 6% despite possible revival of old insolvency
plea - India Today\",\n          \"Eternal Limited (ZOMATO.NS) Stock
Price, News, Quote & History - Yahoo Finance\"\n        ],\n
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\"samples\": [\n
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\"https://www.indiatoday.in/business/story/zomato-share-price-today-
stock-surges-6-percent-insolvency-plea-2695203-2025-03-18\",\n
\"https://finance.yahoo.com/quote/ZOMATO.NS/\"\n        ],\n
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\"semantic_type\": \"\",\n        \"description\": \"\"\n        }\
n    }\n  ]\n}","type":"dataframe","variable_name":"df"}
```

Extracting Individual Articles from Links

```python
def get_article_text(url):
    """Extracts article text from a news website while removing ads
and unwanted content."""
    try:
        headers = {'User-Agent': 'Mozilla/5.0'}
        response = requests.get(url, headers=headers)
        soup = BeautifulSoup(response.text, "html.parser")

        # Remove unwanted elements
        for unwanted in soup.select("nav, aside, footer,
header, .ad, .advertisement, .promo, .sidebar, .related-articles"):
            unwanted.extract()

        # Try extracting from known article containers
        article_body = soup.find(['article', 'div', 'section'],
class_=['article-body', 'post-body', 'entry-content', 'main-content'])

        if article_body:
            paragraphs = article_body.find_all('p')
            article_text = " ".join([p.get_text() for p in
paragraphs]).strip()
            return article_text if article_text else None  # Return
None if empty
```

```python
        # Fallback to all <p> tags
        paragraphs = soup.find_all('p')
        article_text = " ".join([p.get_text() for p in
paragraphs]).strip()

        return article_text if article_text else None  # Return None
if empty

    except Exception:
        return None  # Return None in case of an error

df['article_text'] = df['link'].apply(get_article_text)
df = df.dropna(subset=['article_text'])  # Remove None values
df = df[df['article_text'].str.strip() != '']  # Remove empty strings

df = df.reset_index(drop=True)

df
```

{"summary":"{\n \"name\": \"df\",\n \"rows\": 8,\n \"fields\": [\n   {\n   \"column\": \"title\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 7,\n   \"samples\": [\n   \"IAS officer emails B-school alumni list over Zomato spillage issue: \\u2018Need contact details of senior manager\\u2019 | Trending - Hindustan Times\",\n   \"Zomato share price surges over 6% despite possible revival of old insolvency plea - India Today\",\n   \"Eternal Limited (ZOMATO.NS) Stock Price, News, Quote & History - Yahoo Finance\"\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"link\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 7,\n   \"samples\": [\n   \"https://www.hindustantimes.com/trending/ias-officer-emails-b-school-alumni-list-over-zomato-spillage-issue-need-contact-details-of-senior-manager-101740457780147.html\",\n   \"https://www.indiatoday.in/business/story/zomato-share-price-today-stock-surges-6-percent-insolvency-plea-2695203-2025-03-18\",\n   \"https://finance.yahoo.com/quote/ZOMATO.NS/\"\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"source\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 7,\n   \"samples\": [\n   \"www.hindustantimes.com\",\n   \"www.indiatoday.in\",\n   \"finance.yahoo.com\"\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"article_text\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 7,\n   \"samples\": [\n   \"An IAS officer purportedly emailed the entire alumni list of a top business school over a Zomato spillage issue, requesting the contact details of a senior Zomato executive. A screenshot of the email has surfaced on

the social media platform X, where it has polarised opinion. According to the X account that first posted the screenshot, the IAS officer is himself an alumnus of the business management school. The X account, named \u201cCorporate Majboor\u201d, criticised the bureaucrat for spamming the alumni mailing list with his request for the contact details of a senior Zomato manager. \u201cIf you wondered how our IAS officers work, this dude after his B-School joins IAS only to spam the mailing list with the most wahiyat (nonsense) concerns,\u201d the X account wrote. In his email, the B-school graduate and IAS officer explained that a family member in Gurgaon experienced a spillage issue while ordering from Zomato. However, both Zomato and the restaurant from which they ordered refused to shoulder responsibility for the incident. \u201cI need the contact details of a senior Zomato manager responsible for delivery and restaurant listings,\u201d the IAS officer allegedly wrote in his email to former batchmates. \u201cThis is regarding my family member's recent order from Chicago Pizza in Gurgaon via Zomato, where the soft drinks were spilled due to poor packaging. Both the Zomato chat support and the restaurant owner refused to take responsibility, instead shifting the blame to the delivery boy,\u201d he explained. \u201cDespite the evident packaging issue, the restaurant denied any fault and even stated, \u2018If you want to complain about us to Zomato, go ahead\u2019,\u201d the bureaucrat claimed. HT.com has not independently verified the authenticity of this information. While sharing the screenshot, the X account blurred out the name of the IAS officer. The email proved polarising on X, where some said there was nothing wrong with an IAS officer using the resources at his disposal to address a complaint. Others, however, called it a misuse of power. \u201cIf he can mail this to his batch, imagine the kind of mails he'll be writing to his staff there!\u201d wrote one X user. \u201cBureaucracy yields power in democracy because they are neither answerable nor elected,\u201d another opined. However, a third X user wrote: \u201cSo? What is wrong with it? It's good that he is on it. You spend money for services, it isn't for free. I thank him for doing this because he can get things right for even other customers.\u201d In agreeing with him, another X user added: \u201cBahut shi kiya,these delivery apps have started to suck lately, they will keep shifting responsibility and god forbid you have to talk to their customer care. It always goes to some automated voice and this might be most wahiyat concern for you but this is surely most wahiyat customer service.\u201d",\n
\"Listen to Story Shares of food delivery giant Zomato gained sharply during the trading session even as it may face an insolvency plea after one of its operational creditors moved the National Company Law Tribunal (NCLT). It has come to light that Nona Lifestyle Private Limited has moved the law tribunal to restore an insolvency plea that it had filed earlier against Zomato under Section 9 of the Insolvency and Bankruptcy Code (IBC) in 2024. Despite the insolvency plea, Zomato shares have not been impacted. In fact, they were trading 6.13% higher at Rs 216.35 on the Bombay Stock Exchange (BSE) at 2:42 pm. It had

earlier reached an intraday high of Rs 216.50. As far as the Zomato stock is concerned, it is up over 4% in the past five trading sessions, down 22% in the past six months and this year, but up over 36% in a year. NCLT had earlier dismissed Nona Lifestyle\\u2019s case due to \\\"non-prosecution,\\\" but the company now wants to bring it back. Nona Lifestyle has reportedly filed an application under Rule 11 of the NCLT Rules, 2016, which allows the tribunal to revive old petitions. The company has urged the Delhi NCLT bench to admit its application and kickstart the Corporate Insolvency Resolution Process (CIRP) against Zomato. The matter was heard on Monday by a two-member NCLT bench, including Ashok K Bhardwaj and Reena Sinha Puri, but the case was pushed to April. Nona Lifestyle, which deals in apparel, supplied uniforms and merchandise for Zomato's employees and delivery partners, including branded gear for the ICC World Cup 2023. The company has claimed that Zomato defaulted on payments, delayed transactions, and didn\\u2019t take full delivery of the goods. It is demanding Rs 1.64 crore (including interest), but Zomato's lawyers have denied the claim, arguing that a \\\"pre-existing dispute\\\" exists.Published By: Koustav DasPublished On: Mar 18, 2025\",\n \"Oops, something went wrong Eternal Limited primarily operates as an online food delivery company in India and internationally. It operates through India Food Ordering and Delivery, Hyperpure supplies (B2B business), Quick Commerce, Going Out, and All Other segments. The company operates a B2C technology platform under Zomato brand name that helps to search and discover restaurants, order food delivery, read and write customer generated reviews, view and upload photos, and book a table and make payments while dining-out at restaurants, as well as discovery and ticketing services primarily for events, such as food carnivals, music concerts, comedy shows, and others. Its technology platform connects customers, restaurant partners, and delivery partners. The company also operates Hyperpure, a procurement solution that supplies ingredients and kitchen products to restaurant partners; and Blinkit, a quick commerce marketplace delivering everyday products to customers within minutes. In addition, it engages in the provision of event organizing, and payment aggregator and gateway services; and engages in the trading, financing, and investment activities. The company was formerly known as Zomato Limited and changed its name to Eternal Limited in March 2025. The company was incorporated in 2010 and is headquartered in Gurugram, India. 3,988 March 31 Consumer Cyclical Internet Retail Trailing total returns as of 3/21/2025, which may include dividends or other distributions. Benchmark is S&P BSE SENSEX (^BSESN) . Select to analyze similar companies using key performance metrics; select up to 4 stocks. Market Cap 2.06T Enterprise Value 2.04T Trailing P/E 303.36 Forward P/E -- PEG Ratio (5yr expected) -- Price/Sales (ttm) 11.31 Price/Book (mrq) 9.67 Enterprise Value/Revenue 11.36 Enterprise Value/EBITDA 128.21 Profit Margin 3.69% Return on Assets (ttm) -- Return on Equity (ttm) -- Revenue (ttm) 179.72B Net Income Avi to Common (ttm) 6.63B Diluted EPS (ttm) 0.75 Total Cash

```
(mrq) 18.81B Total Debt/Equity  (mrq) 5.44% Levered Free Cash Flow
(ttm) --\"\n         ],\n         \"semantic_type\": \"\",\n
\"description\": \"\"\n         }\n     }\n   ]\
n}","type":"dataframe","variable_name":"df"}
```

Text Cleaning

```
block_patterns = [
    # Error messages (with variations)
    r'Oops[!,\.]? something went wrong',
    r'An error has occurred',
    r'This content is not available',
    r'Please enable JavaScript to continue',
    r'Error loading content',
    r'Follow Us',

    # JavaScript patterns
    r'var .*?;',
    r'alert\(.*?\)',
    r'console\.log\(.*?\)',
    r'<script.*?</script>',
    r'<noscript>.*?</noscript>',
    r'<style.*?</style>',

    # Loading or restricted content messages
    r'Loading[\.]*',
    r'You must be logged in to view this content',
    r'This content is restricted',
    r'Access denied',
    r'Please disable your ad blocker',

    # GDPR and cookie consent banners
    r'This site uses cookies',
    r'We use cookies to improve your experience',
    r'By using this site, you agree to our use of cookies',
    r'Accept Cookies',

    # Stories or content teasers with any number
    r'\d+\s*Stories',

    # Miscellaneous
    r'<iframe.*?</iframe>',
    r'<meta.*?>',
    r'<link.*?>',
    r'Refresh the page and try again',
    r'Click here if the page does not load',
    r'© [0-9]{4}.*? All rights reserved',
    r'Unauthorized access',
    r'Terms of Service',
```

```python
    r'Privacy Policy',
    r'<.*?>',
]

pattern = '|'.join(block_patterns)
df['article_text'] = df['article_text'].str.replace(pattern, '',
regex=True).str.strip()
df
```

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```python
df['article_text'] = df['article_text'].str.replace(r'\s+', ' ', regex=True).str.strip()

custom_stop_words = set(ENGLISH_STOP_WORDS.union({company_name.lower(), 'company', 'ttm', 'rs'}))
```

```python
# Add numeric values (integer, decimal, comma-separated, monetary)
numeric_patterns = re.compile(r'\b\d+(?:[\.,]\d+)?(?:,\d+)*\b|\$\d+(?:
[\.,]\d+)?')
numeric_matches = set(re.findall(numeric_patterns, '
'.join(df['article_text'])))
custom_stop_words.update(numeric_matches)

# Remove unwanted unicode characters (like \u2018, \u2019, etc.)
unicode_patterns = re.compile(r'[\u2018\u2019\u2020\u2021\u2014]')  #
Add more if needed
df['article_text'] = df['article_text'].apply(lambda x:
unicode_patterns.sub('', x))

# Convert to list for TfidfVectorizer
custom_stop_words = list(custom_stop_words)

df
```

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```
\"description\": \"\"\n       }\n    }\n  ]\
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```

Summary Generation

```python
summarizer = pipeline("summarization", model="google/long-t5-tglobal-base")

# Function to summarize text
def generate_summary(text):
    try:
        if len(text.split()) > 50:  # Skip very short texts
            summary = summarizer(text, max_length=250, min_length=50, do_sample=False)[0]['summary_text']
            return summary
        else:
            return text
    except Exception as e:
        print(f"Error processing text: {e}")
        return None

# Apply summarization to the 'article_text' column
df['summary'] = df['article_text'].apply(generate_summary)
```

```
/usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/
_auth.py:94: UserWarning:
The secret `HF_TOKEN` does not exist in your Colab secrets.
To authenticate with the Hugging Face Hub, create a token in your
settings tab (https://huggingface.co/settings/tokens), set it as
secret in your Google Colab and restart your session.
You will be able to reuse this secret in all of your notebooks.
Please note that authentication is recommended but still optional to
access public models or datasets.
  warnings.warn(
Device set to use cuda:0
Your max_length is set to 250, but your input_length is only 152.
Since this is a summarization task, where outputs shorter than the
input are typically wanted, you might consider decreasing max_length
manually, e.g. summarizer('...', max_length=76)
```

```python
df
```

```
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```

Price, News, Quote & History - Yahoo Finance\"\n   ],\n
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manager-101740457780147.html\",\n
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Sentiment Analysis

```python
# Load a pre-trained BERT-based sentiment model
sentiment_pipeline = pipeline("sentiment-analysis")
```

```python
def analyze_sentiment(text):
    """Analyze sentiment with a confidence-based neutral zone."""
    if not text.strip():
        return "Neutral"

    try:
        result = sentiment_pipeline(text)[0]
        sentiment_label = result["label"]
        confidence = round(result["score"], 2)

        if confidence < 0.7:
            return "Neutral"
        return f"{sentiment_label.capitalize()} ({confidence})"
    except Exception:
        return "Error in sentiment analysis."

# Apply sentiment analysis on the 'title' column
df['sentiment'] = df['summary'].apply(analyze_sentiment)
```

No model was supplied, defaulted to distilbert/distilbert-base-uncased-finetuned-sst-2-english and revision 714eb0f (https://huggingface.co/distilbert/distilbert-base-uncased-finetuned-sst-2-english).
Using a pipeline without specifying a model name and revision in production is not recommended.

{"model_id":"7650e511ed4f480f92e1a62f4789ad82","version_major":2,"version_minor":0}

{"model_id":"c6a02497815f4475a1e8dc6b10f52bce","version_major":2,"version_minor":0}

{"model_id":"0472e2547b3a4438b99df629f3d778c0","version_major":2,"version_minor":0}

Device set to use cuda:0

df

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\"https://www.hindustantimes.com/trending/ias-officer-emails-b-school-alumni-list-over-zomato-spillage-issue-need-contact-details-of-senior-manager-101740457780147.html\",\n
\"https://www.indiatoday.in/business/story/zomato-share-price-today-stock-surges-6-percent-insolvency-plea-2695203-2025-03-18\",\n
\"https://finance.yahoo.com/quote/ZOMATO.NS/\"\n   ],\n
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n   },\n   {\n   \"column\": \"source\",\n   \"properties\":
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n   },\n   {\n   \"column\": \"article_text\",\n
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officer purportedly emailed the entire alumni list of a top business
school over a Zomato spillage issue, requesting the contact details of
a senior Zomato executive. A screenshot of the email has surfaced on
the social media platform X, where it has polarised opinion. According
to the X account that first posted the screenshot, the IAS officer is
himself an alumnus of the business management school. The X account,
named \\u201cCorporate Majboor\\u201d, criticised the bureaucrat for
spamming the alumni mailing list with his request for the contact
details of a senior Zomato manager. \\u201cIf you wondered how our IAS
officers work, this dude after his B-School joins IAS only to spam the
mailing list with the most wahiyat (nonsense) concerns,\\u201d the X
account wrote. In his email, the B-school graduate and IAS officer
explained that a family member in Gurgaon experienced a spillage issue
while ordering from Zomato. However, both Zomato and the restaurant
from which they ordered refused to shoulder responsibility for the
incident. \\u201cI need the contact details of a senior Zomato manager
responsible for delivery and restaurant listings,\\u201d the IAS
officer allegedly wrote in his email to former batchmates. \\u201cThis
is regarding my family member's recent order from Chicago Pizza in
Gurgaon via Zomato, where the soft drinks were spilled due to poor
packaging. Both the Zomato chat support and the restaurant owner
refused to take responsibility, instead shifting the blame to the
delivery boy,\\u201d he explained. \\u201cDespite the evident
packaging issue, the restaurant denied any fault and even stated, If
you want to complain about us to Zomato, go ahead,\\u201d the
bureaucrat claimed. HT.com has not independently verified the
authenticity of this information. While sharing the screenshot, the X
account blurred out the name of the IAS officer. The email proved
polarising on X, where some said there was nothing wrong with an IAS
officer using the resources at his disposal to address a complaint.
Others, however, called it a misuse of power. \\u201cIf he can mail
this to his batch, imagine the kind of mails he'll be writing to his

staff there!\u201d wrote one X user. \u201cBureaucracy yields power in democracy because they are neither answerable nor elected,\u201d another opined. However, a third X user wrote: \u201cSo? What is wrong with it? It's good that he is on it. You spend money for services, it isn't for free. I thank him for doing this because he can get things right for even other customers.\u201d In agreeing with him, another X user added: \u201cBahut shi kiya,these delivery apps have started to suck lately, they will keep shifting responsibility and god forbid you have to talk to their customer care. It always goes to some automated voice and this might be most wahiyat concern for you but this is surely most wahiyat customer service.\u201d\",\n
\"Listen to Story Shares of food delivery giant Zomato gained sharply during the trading session even as it may face an insolvency plea after one of its operational creditors moved the National Company Law Tribunal (NCLT). It has come to light that Nona Lifestyle Private Limited has moved the law tribunal to restore an insolvency plea that it had filed earlier against Zomato under Section 9 of the Insolvency and Bankruptcy Code (IBC) in 2024. Despite the insolvency plea, Zomato shares have not been impacted. In fact, they were trading 6.13% higher at Rs 216.35 on the Bombay Stock Exchange (BSE) at 2:42 pm. It had earlier reached an intraday high of Rs 216.50. As far as the Zomato stock is concerned, it is up over 4% in the past five trading sessions, down 22% in the past six months and this year, but up over 36% in a year. NCLT had earlier dismissed Nona Lifestyles case due to \\\"non-prosecution,\\\" but the company now wants to bring it back. Nona Lifestyle has reportedly filed an application under Rule 11 of the NCLT Rules, 2016, which allows the tribunal to revive old petitions. The company has urged the Delhi NCLT bench to admit its application and kickstart the Corporate Insolvency Resolution Process (CIRP) against Zomato. The matter was heard on Monday by a two-member NCLT bench, including Ashok K Bhardwaj and Reena Sinha Puri, but the case was pushed to April. Nona Lifestyle, which deals in apparel, supplied uniforms and merchandise for Zomato's employees and delivery partners, including branded gear for the ICC World Cup 2023. The company has claimed that Zomato defaulted on payments, delayed transactions, and didnt take full delivery of the goods. It is demanding Rs 1.64 crore (including interest), but Zomato's lawyers have denied the claim, arguing that a \\\"pre-existing dispute\\\" exists.Published By: Koustav DasPublished On: Mar 18, 2025\",\n
\"Eternal Limited primarily operates as an online food delivery company in India and internationally. It operates through India Food Ordering and Delivery, Hyperpure supplies (B2B business), Quick Commerce, Going Out, and All Other segments. The company operates a B2C technology platform under Zomato brand name that helps to search and discover restaurants, order food delivery, read and write customer generated reviews, view and upload photos, and book a table and make payments while dining-out at restaurants, as well as discovery and ticketing services primarily for events, such as food carnivals, music concerts, comedy shows, and others. Its technology platform connects

customers, restaurant partners, and delivery partners. The company also operates Hyperpure, a procurement solution that supplies ingredients and kitchen products to restaurant partners; and Blinkit, a quick commerce marketplace delivering everyday products to customers within minutes. In addition, it engages in the provision of event organizing, and payment aggregator and gateway services; and engages in the trading, financing, and investment activities. The company was formerly known as Zomato Limited and changed its name to Eternal Limited in March 2025. The company was incorporated in 2010 and is headquartered in Gurugram, India. 3,988 March 31 Consumer Cyclical Internet Retail Trailing total returns as of 3/21/2025, which may include dividends or other distributions. Benchmark is S&P BSE SENSEX (^BSESN) . Select to analyze similar companies using key performance metrics; select up to 4 stocks. Market Cap 2.06T Enterprise Value 2.04T Trailing P/E 303.36 Forward P/E -- PEG Ratio (5yr expected) -- Price/Sales (ttm) 11.31 Price/Book (mrq) 9.67 Enterprise Value/Revenue 11.36 Enterprise Value/EBITDA 128.21 Profit Margin 3.69% Return on Assets (ttm) -- Return on Equity (ttm) -- Revenue (ttm) 179.72B Net Income Avi to Common (ttm) 6.63B Diluted EPS (ttm) 0.75 Total Cash (mrq) 18.81B Total Debt/Equity (mrq) 5.44% Levered Free Cash Flow (ttm) --

\"\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"summary\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 7,\n   \"samples\": [\n   \"An IAS officer purportedly emailed the entire alumni list of a top business school over a Zomato spillage issue, requesting the contact details of a senior Zomato executive. In his email, the B-school graduate and IAS officer explained that a family member in Gurgaon experienced a spillage issue while ordering from Zomato.\",\n   \"It has come to light that Nona Lifestyle Private Limited has moved the law tribunal to restore an insolvency plea that it had filed earlier against Zomato under Section 9 of the Insolvency and Bankruptcy Code (IBC) in 2024.\",\n   \"The company operates a B2C technology platform under Zomato brand name that helps to search and discover restaurants, order food delivery, read and write customer generated reviews, view and upload photos, and book a table and make payments while dining-out at restaurants, as well as discovery and ticketing services primarily for events, such as food carnivals, music concerts, comedy shows, and others.\"\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"sentiment\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 6,\n   \"samples\": [\n   \"Negative (1.0)\",\n   \"Negative (0.99)\",\n   \"Positive (0.89)\"\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   }\n]\n}","type":"dataframe","variable_name":"df"}

Topic Extraction

```python
df['combined_text'] = df['title'] + ' ' + df['summary']

# Apply TfidfVectorizer
vectorizer = TfidfVectorizer(max_features=1000,
stop_words=custom_stop_words)
tfidf = vectorizer.fit_transform(df['combined_text'])
```

```
/usr/local/lib/python3.11/dist-packages/sklearn/feature_extraction/
text.py:402: UserWarning: Your stop_words may be inconsistent with
your preprocessing. Tokenizing the stop words generated tokens ['128',
'216', '303', '35', '44', '50', '64', '67', '69', '75', '988'] not in
stop_words.
  warnings.warn(
```

```python
n_topics = 5  # Number of topics to extract
nmf = NMF(n_components=n_topics, random_state=42)
W = nmf.fit_transform(tfidf)
H = nmf.components_

feature_names = vectorizer.get_feature_names_out()
topics = []
for topic_idx, topic in enumerate(H):
    top_words = [feature_names[i] for i in topic.argsort()[-5:]][::-1]
# Top 5 words per topic
    topics.append(", ".join(top_words))

def get_top_topics(row):
    topic_indices = W[row].argsort()[-3:][::-1]  # Get top 3 topics
per row
    return [topics[i] for i in topic_indices]

df['top_topics'] = [get_top_topics(i) for i in range(len(df))]

print(df[['top_topics']])
```

```
                                    top_topics
0  [issue, officer, spillage, school, ias, sessio...
1  [insolvency, plea, moved, surges, tribunal, is...
2  [matters, people, eternal, core, site, issue, ...
3  [matters, people, eternal, core, site, issue, ...
4  [delivery, food, minute, news, quick, issue, o...
5  [delivery, food, minute, news, quick, session,...
6  [delivery, food, minute, news, quick, insolven...
7  [session, login, expired, news, image, insolve...
```

Comparitive Analysis

```python
df['dominant_topic'] = W.argmax(axis=1)
df['topic_distribution'] = W.tolist()
similarity_matrix = cosine_similarity(W)

df['similarity_scores'] = similarity_matrix.mean(axis=1)
df['most_similar_article'] = similarity_matrix.argsort(axis=1)[:, -2]
# Second highest value (excluding itself)
df['least_similar_article'] = similarity_matrix.argsort(axis=1)[:, 0]
# Lowest value

plt.figure(figsize=(10, 8))
sns.heatmap(similarity_matrix, annot=True, fmt=".2f", cmap="coolwarm",
xticklabels=False, yticklabels=False)
plt.title("Comparative Analysis of News Coverage Across Articles")
plt.show()
```

Comparative Analysis of News Coverage Across Articles

1.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
0.00	1.00	0.00	0.00	0.00	0.00	0.06	0.00
0.00	0.00	1.00	1.00	0.00	0.01	0.06	0.00
0.00	0.00	1.00	1.00	0.00	0.01	0.06	0.00
0.00	0.00	0.00	0.00	1.00	0.97	1.00	0.00
0.03	0.00	0.01	0.01	0.97	1.00	0.97	0.23
0.00	0.06	0.06	0.06	1.00	0.97	1.00	0.00
0.00	0.00	0.00	0.00	0.00	0.23	0.00	1.00
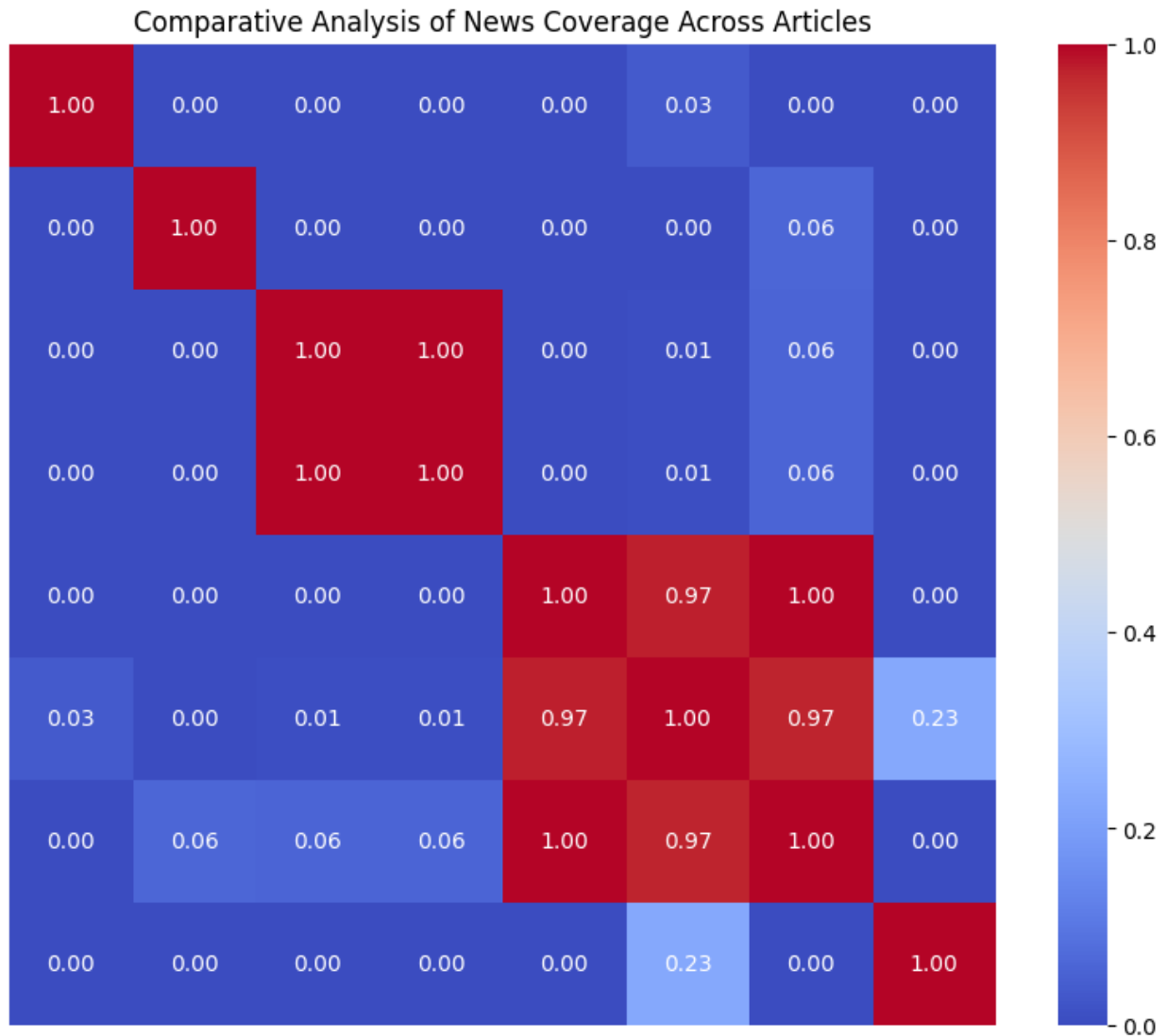
```
print(df[['summary', 'dominant_topic', 'topic_distribution',
'similarity_scores', 'most_similar_article',
'least_similar_article']])
```

```
                                                summary
dominant_topic  \
0  An IAS officer purportedly emailed the entire ...                4

1  It has come to light that Nona Lifestyle Priva...                2

2  We would like to rename Zomato Ltd., the compa...                0

3  We would like to rename Zomato Ltd., the compa...                0

4  Zomato, a food ordering and delivery platform,...                1
```

```
5   February 06, 2025 10:31 pm Eternal will compri...                    1

6   The company operates a B2C technology platform...                    1

7   Looks like you have exceeded the limit to book...                    3


                                      topic_distribution
similarity_scores  \
0           [0.0, 0.0, 0.0, 0.0, 0.8373272557484316]
0.129306
1           [0.0, 0.0, 0.6570901690370965, 0.0, 0.0]
0.132438
2           [0.8255156393641367, 0.0, 0.0, 0.0, 0.0]
0.258135
3           [0.8255156393641367, 0.0, 0.0, 0.0, 0.0]
0.258135
4           [0.0, 0.5443665965374412, 0.0, 0.0, 0.0]
0.371169
5   [0.003703786015650038, 0.5041657225643873, 0.0...
0.402544
6   [0.02806403107336215, 0.482730652245258, 0.028...
0.392712
7   [0.0, 0.0, 0.00010344077858272089, 1.029779088...
0.153631

   most_similar_article  least_similar_article
0                     5                      1
1                     6                      0
2                     3                      0
3                     3                      0
4                     6                      0
5                     4                      1
6                     4                      0
7                     5                      0
```

```python
comparisons = []
for i in range(len(df)):
    # Find most similar and least similar articles
    similar_idx = similarity_matrix[i].argsort()[-2]  # Most similar
(excluding itself)
    least_similar_idx = similarity_matrix[i].argsort()[0]  # Least
similar

    # Build comparison text
    comparison = {
        "Most Similar": f"Article {i + 1} focuses on
'{topics[df['dominant_topic'][i]]}', similar to Article {similar_idx +
1} which also discusses '{topics[df['dominant_topic']
[similar_idx]]}'.",
```

```python
        "Least Similar": f"Article {i + 1} focuses on
'{topics[df['dominant_topic'][i]]}', contrasting with Article
{least_similar_idx + 1} which discusses '{topics[df['dominant_topic']
[least_similar_idx]]}'."
        }
    comparisons.append(comparison)

df['coverage_comparison'] = comparisons

# Find common and unique topics
all_topics = df['dominant_topic'].tolist()
topic_counter = Counter(all_topics)
common_topics = [topics[i] for i, count in topic_counter.items() if
count > 1]
unique_topics = [topics[i] for i, count in topic_counter.items() if
count == 1]

topic_overlap = {
    "Common Topics": common_topics,
    "Unique Topics": unique_topics
}

df['sentiment_label'] = df['sentiment'].str.extract(r'(Positive|
Negative|Neutral)')
sentiment_counts = df['sentiment_label'].value_counts()
if sentiment_counts.get('Positive', 0) >
sentiment_counts.get('Negative', 0):
    sentiment = "Overall sentiment is positive."
elif sentiment_counts.get('Negative', 0) >
sentiment_counts.get('Positive', 0):
    sentiment = "Overall sentiment is negative."
else:
    sentiment = "Overall sentiment is mixed."

import json
import ast
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity

# Function to extract relevant topics using TF-IDF and similarity
def extract_relevant_topics(topics):
    if isinstance(topics, str):
        topics = ast.literal_eval(topics)  # Convert string to list if
needed

    if len(topics) <= 2:
        return topics

    vectorizer = TfidfVectorizer()
    tfidf_matrix = vectorizer.fit_transform(topics)
    similarity_matrix = cosine_similarity(tfidf_matrix, tfidf_matrix)
```

```python
    # Sum similarity scores for each topic
    topic_scores = similarity_matrix.sum(axis=1)

    # Get top 2 highest scoring topics
    top_indices = topic_scores.argsort()[-2:][::-1]
    top_topics = [topics[i] for i in top_indices]

    return top_topics

# Step 1: Clean and convert topics into sets
df['top_topics'] = df['top_topics'].apply(lambda x:
ast.literal_eval(x) if isinstance(x, str) else x)

# Step 2: Find common topics
topic_sets = df['top_topics'].map(set)
common_topics = set.intersection(*topic_sets)

# Step 3: Find unique topics for each row
df['unique_topics'] = df['top_topics'].map(lambda x: list(set(x) -
common_topics))

# Generate coverage differences
coverage_differences = []
for _, row in df.iterrows():
    if row['most_similar_article'] in df.index and
row['least_similar_article'] in df.index:
        most_similar = df.loc[row['most_similar_article']]
        least_similar = df.loc[row['least_similar_article']]

        # Extract most relevant topics for impact
        most_relevant_topics =
extract_relevant_topics(row['top_topics'])
        least_relevant_topics =
extract_relevant_topics(least_similar['top_topics'])

        if most_relevant_topics and least_relevant_topics:
            comparison = {
                "Comparison": f"{row['title']} highlights {',
'.join(row['top_topics'])}, while {most_similar['title']} discusses
{', '.join(most_similar['top_topics'])}.",
                "Impact": f"The article emphasizes
{most_relevant_topics[0]} and {most_relevant_topics[1]}, contrasting
with {least_relevant_topics[0]} and {least_relevant_topics[1]} in the
least similar article."
            }
            coverage_differences.append(comparison)

# Format JSON output
structured_summary = {
```

```python
        "Company": company_name,
        "Articles": [
            {
                "Title": row['title'],
                "Summary": row['summary'],
                "Sentiment": row['sentiment'],
                "Topics": row['top_topics'],
                "Unique Topics": row['unique_topics']
            }
            for _, row in df.iterrows()
        ],
        "Comparative Sentiment Score": {
            "Sentiment Distribution":
df['sentiment'].value_counts().to_dict(),
            "Coverage Differences": coverage_differences,
            "Topic Overlap": {
                "Common Topics": list(common_topics),
                "Unique Topics": [
                    {
                        "Title": row['title'],
                        "Unique Topics": row['unique_topics']
                    } for _, row in df.iterrows()
                ]
            }
        },
        "Final Sentiment Analysis": f"{company_name}'s latest news
coverage is mostly {df['sentiment'].mode()[0].lower()}. Potential
market impact expected."
}

# Print JSON output
print(json.dumps(structured_summary, indent=4))

{
    "Company": "Zomato",
    "Articles": [
        {
            "Title": "IAS officer emails B-school alumni list over
Zomato spillage issue: \u2018Need contact details of senior manager\
u2019 | Trending - Hindustan Times",
            "Summary": "An IAS officer purportedly emailed the entire
alumni list of a top business school over a Zomato spillage issue,
requesting the contact details of a senior Zomato executive. In his
email, the B-school graduate and IAS officer explained that a family
member in Gurgaon experienced a spillage issue while ordering from
Zomato.",
            "Sentiment": "Negative (1.0)",
            "Topics": [
                "issue, officer, spillage, school, ias",
                "session, login, expired, news, image",
```

```
                    "insolvency, plea, moved, surges, tribunal"
                ],
                "Unique Topics": [
                    "insolvency, plea, moved, surges, tribunal",
                    "issue, officer, spillage, school, ias",
                    "session, login, expired, news, image"
                ]
            },
            {
                "Title": "Zomato share price surges over 6% despite
possible revival of old insolvency plea - India Today",
                "Summary": "It has come to light that Nona Lifestyle
Private Limited has moved the law tribunal to restore an insolvency
plea that it had filed earlier against Zomato under Section 9 of the
Insolvency and Bankruptcy Code (IBC) in 2024.",
                "Sentiment": "Negative (0.99)",
                "Topics": [
                    "insolvency, plea, moved, surges, tribunal",
                    "issue, officer, spillage, school, ias",
                    "session, login, expired, news, image"
                ],
                "Unique Topics": [
                    "insolvency, plea, moved, surges, tribunal",
                    "issue, officer, spillage, school, ias",
                    "session, login, expired, news, image"
                ]
            },
            {
                "Title": "People Matters - Interstitial Site \u2014 People
Matters",
                "Summary": "We would like to rename Zomato Ltd., the
company (not the brand/app), to Eternal Ltd.\u201d According to Goyal,
Eternal is a powerful name, and it scares him to his core.",
                "Sentiment": "Positive (1.0)",
                "Topics": [
                    "matters, people, eternal, core, site",
                    "issue, officer, spillage, school, ias",
                    "session, login, expired, news, image"
                ],
                "Unique Topics": [
                    "issue, officer, spillage, school, ias",
                    "session, login, expired, news, image",
                    "matters, people, eternal, core, site"
                ]
            },
            {
                "Title": "People Matters - Interstitial Site \u2014 People
Matters",
                "Summary": "We would like to rename Zomato Ltd., the
```

company (not the brand/app), to Eternal Ltd.\u201d According to Goyal,
Eternal is a powerful name, and it scares him to his core.",
            "Sentiment": "Positive (1.0)",
            "Topics": [
                "matters, people, eternal, core, site",
                "issue, officer, spillage, school, ias",
                "session, login, expired, news, image"
            ],
            "Unique Topics": [
                "issue, officer, spillage, school, ias",
                "session, login, expired, news, image",
                "matters, people, eternal, core, site"
            ]
        },
        {
            "Title": "Zomato Quick's 'Ek Do Teen' remix stops at 'Dus'
for 10-minute delivery push",
            "Summary": "Zomato, a food ordering and delivery platform,
announced the launch of its latest campaign for Zomato Quick, its 10-
minute food delivery service. The four ads use a twist on the 'Ek Do
Teen' song, stopping at 'Dus' to highlight 10-minute delivery.",
            "Sentiment": "Negative (0.98)",
            "Topics": [
                "delivery, food, minute, news, quick",
                "issue, officer, spillage, school, ias",
                "session, login, expired, news, image"
            ],
            "Unique Topics": [
                "delivery, food, minute, news, quick",
                "issue, officer, spillage, school, ias",
                "session, login, expired, news, image"
            ]
        },
        {
            "Title": "Latest News on Zomato: Get Zomato News Updates
along with Photos, Videos and Latest News Headlines | The Indian
Express",
            "Summary": "February 06, 2025 10:31 pm Eternal will
comprise four key business segments: Zomato's food delivery service,
Blinkits quick-commerce unit, Districts live events business, and
Hyperpure's kitchen supplies unit, the company said.",
            "Sentiment": "Positive (0.98)",
            "Topics": [
                "delivery, food, minute, news, quick",
                "session, login, expired, news, image",
                "issue, officer, spillage, school, ias"
            ],
            "Unique Topics": [
                "delivery, food, minute, news, quick",

```
                    "issue, officer, spillage, school, ias",
                    "session, login, expired, news, image"
                ]
        },
        {
            "Title": "Eternal Limited (ZOMATO.NS) Stock Price, News,
Quote & History - Yahoo Finance",
            "Summary": "The company operates a B2C technology platform
under Zomato brand name that helps to search and discover restaurants,
order food delivery, read and write customer generated reviews, view
and upload photos, and book a table and make payments while dining-out
at restaurants, as well as discovery and ticketing services primarily
for events, such as food carnivals, music concerts, comedy shows, and
others.",
            "Sentiment": "Positive (0.89)",
            "Topics": [
                "delivery, food, minute, news, quick",
                "insolvency, plea, moved, surges, tribunal",
                "matters, people, eternal, core, site"
            ],
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officer purportedly emailed the entire alumni list of a top business
school over a Zomato spillage issue, requesting the contact details of
a senior Zomato executive. A screenshot of the email has surfaced on
the social media platform X, where it has polarised opinion. According
to the X account that first posted the screenshot, the IAS officer is
himself an alumnus of the business management school. The X account,
named \\u201cCorporate Majboor\\u201d, criticised the bureaucrat for
spamming the alumni mailing list with his request for the contact
details of a senior Zomato manager. \\u201cIf you wondered how our IAS
officers work, this dude after his B-School joins IAS only to spam the
mailing list with the most wahiyat (nonsense) concerns,\\u201d the X
account wrote. In his email, the B-school graduate and IAS officer
explained that a family member in Gurgaon experienced a spillage issue
while ordering from Zomato. However, both Zomato and the restaurant
from which they ordered refused to shoulder responsibility for the
incident. \\u201cI need the contact details of a senior Zomato manager
responsible for delivery and restaurant listings,\\u201d the IAS
```

officer allegedly wrote in his email to former batchmates. \u201cThis is regarding my family member's recent order from Chicago Pizza in Gurgaon via Zomato, where the soft drinks were spilled due to poor packaging. Both the Zomato chat support and the restaurant owner refused to take responsibility, instead shifting the blame to the delivery boy,\u201d he explained. \u201cDespite the evident packaging issue, the restaurant denied any fault and even stated, If you want to complain about us to Zomato, go ahead,\u201d the bureaucrat claimed. HT.com has not independently verified the authenticity of this information. While sharing the screenshot, the X account blurred out the name of the IAS officer. The email proved polarising on X, where some said there was nothing wrong with an IAS officer using the resources at his disposal to address a complaint. Others, however, called it a misuse of power. \u201cIf he can mail this to his batch, imagine the kind of mails he'll be writing to his staff there!\u201d wrote one X user. \u201cBureaucracy yields power in democracy because they are neither answerable nor elected,\u201d another opined. However, a third X user wrote: \u201cSo? What is wrong with it? It's good that he is on it. You spend money for services, it isn't for free. I thank him for doing this because he can get things right for even other customers.\u201d In agreeing with him, another X user added: \u201cBahut shi kiya,these delivery apps have started to suck lately, they will keep shifting responsibility and god forbid you have to talk to their customer care. It always goes to some automated voice and this might be most wahiyat concern for you but this is surely most wahiyat customer service.\u201d\",\n \"Listen to Story Shares of food delivery giant Zomato gained sharply during the trading session even as it may face an insolvency plea after one of its operational creditors moved the National Company Law Tribunal (NCLT). It has come to light that Nona Lifestyle Private Limited has moved the law tribunal to restore an insolvency plea that it had filed earlier against Zomato under Section 9 of the Insolvency and Bankruptcy Code (IBC) in 2024. Despite the insolvency plea, Zomato shares have not been impacted. In fact, they were trading 6.13% higher at Rs 216.35 on the Bombay Stock Exchange (BSE) at 2:42 pm. It had earlier reached an intraday high of Rs 216.50. As far as the Zomato stock is concerned, it is up over 4% in the past five trading sessions, down 22% in the past six months and this year, but up over 36% in a year. NCLT had earlier dismissed Nona Lifestyles case due to \\\"non-prosecution,\\\" but the company now wants to bring it back. Nona Lifestyle has reportedly filed an application under Rule 11 of the NCLT Rules, 2016, which allows the tribunal to revive old petitions. The company has urged the Delhi NCLT bench to admit its application and kickstart the Corporate Insolvency Resolution Process (CIRP) against Zomato. The matter was heard on Monday by a two-member NCLT bench, including Ashok K Bhardwaj and Reena Sinha Puri, but the case was pushed to April. Nona Lifestyle, which deals in apparel, supplied uniforms and merchandise for Zomato's employees and delivery partners, including branded gear for the ICC World Cup 2023. The

company has claimed that Zomato defaulted on payments, delayed transactions, and didnt take full delivery of the goods. It is demanding Rs 1.64 crore (including interest), but Zomato's lawyers have denied the claim, arguing that a \\\"pre-existing dispute\\\" exists.Published By: Koustav DasPublished On: Mar 18, 2025\",\n \"Eternal Limited primarily operates as an online food delivery company in India and internationally. It operates through India Food Ordering and Delivery, Hyperpure supplies (B2B business), Quick Commerce, Going Out, and All Other segments. The company operates a B2C technology platform under Zomato brand name that helps to search and discover restaurants, order food delivery, read and write customer generated reviews, view and upload photos, and book a table and make payments while dining-out at restaurants, as well as discovery and ticketing services primarily for events, such as food carnivals, music concerts, comedy shows, and others. Its technology platform connects customers, restaurant partners, and delivery partners. The company also operates Hyperpure, a procurement solution that supplies ingredients and kitchen products to restaurant partners; and Blinkit, a quick commerce marketplace delivering everyday products to customers within minutes. In addition, it engages in the provision of event organizing, and payment aggregator and gateway services; and engages in the trading, financing, and investment activities. The company was formerly known as Zomato Limited and changed its name to Eternal Limited in March 2025. The company was incorporated in 2010 and is headquartered in Gurugram, India. 3,988 March 31 Consumer Cyclical Internet Retail Trailing total returns as of 3/21/2025, which may include dividends or other distributions. Benchmark is S&P BSE SENSEX (^BSESN) . Select to analyze similar companies using key performance metrics; select up to 4 stocks. Market Cap 2.06T Enterprise Value 2.04T Trailing P/E 303.36 Forward P/E -- PEG Ratio (5yr expected) -- Price/Sales (ttm) 11.31 Price/Book (mrq) 9.67 Enterprise Value/Revenue 11.36 Enterprise Value/EBITDA 128.21 Profit Margin 3.69% Return on Assets (ttm) -- Return on Equity (ttm) -- Revenue (ttm) 179.72B Net Income Avi to Common (ttm) 6.63B Diluted EPS (ttm) 0.75 Total Cash (mrq) 18.81B Total Debt/Equity (mrq) 5.44% Levered Free Cash Flow (ttm) --\"\n   ],\n   \"semantic_type\": \"\",\n \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"summary\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 7,\n   \"samples\": [\n \"An IAS officer purportedly emailed the entire alumni list of a top business school over a Zomato spillage issue, requesting the contact details of a senior Zomato executive. In his email, the B-school graduate and IAS officer explained that a family member in Gurgaon experienced a spillage issue while ordering from Zomato.\",\n \"It has come to light that Nona Lifestyle Private Limited has moved the law tribunal to restore an insolvency plea that it had filed earlier against Zomato under Section 9 of the Insolvency and Bankruptcy Code (IBC) in 2024.\",\n   \"The company operates a B2C technology platform under Zomato brand name that helps to search

and discover restaurants, order food delivery, read and write customer generated reviews, view and upload photos, and book a table and make payments while dining-out at restaurants, as well as discovery and ticketing services primarily for events, such as food carnivals, music concerts, comedy shows, and others.\"\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"sentiment\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 6,\n   \"samples\": [\n   \"Negative (1.0)\",\n   \"Negative (0.99)\",\n   \"Positive (0.89)\"\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"combined_text\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 7,\n   \"samples\": [\n   \"IAS officer emails B-school alumni list over Zomato spillage issue: \\u2018Need contact details of senior manager\\u2019 | Trending - Hindustan Times An IAS officer purportedly emailed the entire alumni list of a top business school over a Zomato spillage issue, requesting the contact details of a senior Zomato executive. In his email, the B-school graduate and IAS officer explained that a family member in Gurgaon experienced a spillage issue while ordering from Zomato.\",\n   \"Zomato share price surges over 6% despite possible revival of old insolvency plea - India Today It has come to light that Nona Lifestyle Private Limited has moved the law tribunal to restore an insolvency plea that it had filed earlier against Zomato under Section 9 of the Insolvency and Bankruptcy Code (IBC) in 2024.\",\n   \"Eternal Limited (ZOMATO.NS) Stock Price, News, Quote & History - Yahoo Finance The company operates a B2C technology platform under Zomato brand name that helps to search and discover restaurants, order food delivery, read and write customer generated reviews, view and upload photos, and book a table and make payments while dining-out at restaurants, as well as discovery and ticketing services primarily for events, such as food carnivals, music concerts, comedy shows, and others.\"\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"top_topics\",\n   \"properties\": {\n   \"dtype\": \"object\",\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"dominant_topic\",\n   \"properties\": {\n   \"dtype\": \"number\",\n   \"std\": 1,\n   \"min\": 0,\n   \"max\": 4,\n   \"num_unique_values\": 5,\n   \"samples\": [\n   2,\n   3,\n   0\n   ],\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"topic_distribution\",\n   \"properties\": {\n   \"dtype\": \"object\",\n   \"semantic_type\": \"\",\n   \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"similarity_scores\",\n   \"properties\": {\n   \"dtype\": \"number\",\n   \"std\": 0.11644944605588985,\n   \"min\": 0.12930649405686692,\n

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Final Text Output Generation

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for i, row in df.iterrows():
    article_entry = f"Article {i + 1}: "
    article_entry += f"{row['title']}; "
    article_entry += f"Summary: {row['summary']} This article has a {row['sentiment_label'].lower()} sentiment."
    text_output.append(article_entry)

# Print text output as array
for i, entry in enumerate(text_output):
    print(text_output[i])
```

Name of Company: Zomato
Article 1: IAS officer emails B-school alumni list over Zomato
spillage issue: 'Need contact details of senior manager' | Trending -
Hindustan Times; Summary: An IAS officer purportedly emailed the
entire alumni list of a top business school over a Zomato spillage
issue, requesting the contact details of a senior Zomato executive. In
his email, the B-school graduate and IAS officer explained that a

family member in Gurgaon experienced a spillage issue while ordering from Zomato. This article has a negative sentiment.
Article 2: Zomato share price surges over 6% despite possible revival of old insolvency plea - India Today; Summary: It has come to light that Nona Lifestyle Private Limited has moved the law tribunal to restore an insolvency plea that it had filed earlier against Zomato under Section 9 of the Insolvency and Bankruptcy Code (IBC) in 2024. This article has a negative sentiment.
Article 3: People Matters - Interstitial Site — People Matters; Summary: We would like to rename Zomato Ltd., the company (not the brand/app), to Eternal Ltd." According to Goyal, Eternal is a powerful name, and it scares him to his core. This article has a positive sentiment.
Article 4: People Matters - Interstitial Site — People Matters; Summary: We would like to rename Zomato Ltd., the company (not the brand/app), to Eternal Ltd." According to Goyal, Eternal is a powerful name, and it scares him to his core. This article has a positive sentiment.
Article 5: Zomato Quick's 'Ek Do Teen' remix stops at 'Dus' for 10-minute delivery push; Summary: Zomato, a food ordering and delivery platform, announced the launch of its latest campaign for Zomato Quick, its 10-minute food delivery service. The four ads use a twist on the 'Ek Do Teen' song, stopping at 'Dus' to highlight 10-minute delivery. This article has a negative sentiment.
Article 6: Latest News on Zomato: Get Zomato News Updates along with Photos, Videos and Latest News Headlines | The Indian Express; Summary: February 06, 2025 10:31 pm Eternal will comprise four key business segments: Zomato's food delivery service, Blinkits quick-commerce unit, Districts live events business, and Hyperpure's kitchen supplies unit, the company said. This article has a positive sentiment.
Article 7: Eternal Limited (ZOMATO.NS) Stock Price, News, Quote & History - Yahoo Finance; Summary: The company operates a B2C technology platform under Zomato brand name that helps to search and discover restaurants, order food delivery, read and write customer generated reviews, view and upload photos, and book a table and make payments while dining-out at restaurants, as well as discovery and ticketing services primarily for events, such as food carnivals, music concerts, comedy shows, and others. This article has a positive sentiment.
Article 8: Zomato News: Find Zomato News Today, Latest News Zomato; Summary: Looks like you have exceeded the limit to bookmark the image. Remove some to bookmark this image. Your session has expired, please login again. Your session has expired, please login again. Your session has expired, please login again. Your session has expired, please login again. This article has a negative sentiment.

Translation to Hindi

```
!pip install deep-translator
```

```
Collecting deep-translator
  Downloading deep_translator-1.11.4-py3-none-any.whl.metadata (30 kB)
Requirement already satisfied: beautifulsoup4<5.0.0,>=4.9.1 in
/usr/local/lib/python3.11/dist-packages (from deep-translator)
(4.13.3)
Requirement already satisfied: requests<3.0.0,>=2.23.0 in
/usr/local/lib/python3.11/dist-packages (from deep-translator)
(2.32.3)
Requirement already satisfied: soupsieve>1.2 in
/usr/local/lib/python3.11/dist-packages (from
beautifulsoup4<5.0.0,>=4.9.1->deep-translator) (2.6)
Requirement already satisfied: typing-extensions>=4.0.0 in
/usr/local/lib/python3.11/dist-packages (from
beautifulsoup4<5.0.0,>=4.9.1->deep-translator) (4.12.2)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.11/dist-packages (from requests<3.0.0,>=2.23.0-
>deep-translator) (3.4.1)
Requirement already satisfied: idna<4,>=2.5 in
/usr/local/lib/python3.11/dist-packages (from requests<3.0.0,>=2.23.0-
>deep-translator) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.11/dist-packages (from requests<3.0.0,>=2.23.0-
>deep-translator) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.11/dist-packages (from requests<3.0.0,>=2.23.0-
>deep-translator) (2025.1.31)
Downloading deep_translator-1.11.4-py3-none-any.whl (42 kB)
━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0.0/42.3 kB ? eta -:--:--
━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 42.3/42.3 kB 2.4 MB/s eta
0:00:00
```

```python
from deep_translator import GoogleTranslator
from tqdm import tqdm

# Sample list of text entries to translate
text_list = ["How are you doing?", "Good morning!", "Have a nice
day!"]

# Initialize the translator (source = 'auto' detects the input
language)
translator = GoogleTranslator(source='en', target='hi')  # 'hi' =
Hindi

translated_news = []
for text in tqdm(text_output, desc="Translating"):
    translated_news.append(translator.translate(text))
```

```
# Print translated results
for translated in translated_news:
    print(translated)
```

Translating: 100%|████████| 9/9 [00:09<00:00, 1.01s/it]

कंपनी का नाम: ज़ोमेटो
अनुच्छेद 1: IAS अधिकारी ईमेल B-School पूर्व छात्र सूची Zomato Spillage समस्या पर:
'वरिष्ठ प्रबंधक के संपर्क विवरण की आवश्यकता है '| ट्रेंडिंग - हिंदुस्तान टाइम्स; सारांश: एक IAS
अधिकारी ने एक वरिष्ठ Zomato के कार्यकारी के संपर्क विवरण का अनुरोध करते हुए, Zomato
Spillage मुद्दे पर एक शीर्ष बिजनेस स्कूल की पूरी पूर्व छात्र सूची को ईमेल किया। अपने ईमेल में, बी-
स्कूल ग्रेजुएट और आईएएस अधिकारी ने बताया कि गुड़गांव में परिवार के एक सदस्य ने ज़ोमैटो से ऑर्डर
करते हुए एक स्पिलेज मुद्दे का अनुभव किया। इस लेख में एक नकारात्मक भावना है।
अनुच्छेद 2: Zomato शेयर की कीमत पुरानी दिवाला याचिका के संभावित पुनरुद्धार के बावजूद 6% से
अधिक बढ़ जाती है - भारत आज; सारांश: यह सामने आया है कि नोना लाइफस्टाइल प्राइवेट लिमिटेड ने
एक इनसॉल्वेंसी याचिका को बहाल करने के लिए लॉ ट्रिब्यूनल को स्थानांतरित कर दिया है, जिसे उसने 2024
में इन्सॉल्वेंसी एंड दिवालियापन कोड (IBC) की धारा 9 के तहत ज़ोमाटो के खिलाफ पहले दायर किया था।
इस लेख में एक नकारात्मक भावना है।
अनुच्छेद 3: लोग मायने रखते हैं - अंतरालीय साइट - लोग मायने रखते हैं; सारांश: हम Zomato
Ltd., कंपनी (ब्रांड/ऐप नहीं) का नाम बदलकर, इटरनल लिमिटेड "का नाम बदलना चाहेंगे। गोयल के
अनुसार, अनन्त एक शक्तिशाली नाम है, और यह उसे अपने मूल में डराता है।
अनुच्छेद 4: लोग मायने रखते हैं - अंतरालीय साइट - लोग मायने रखते हैं; सारांश: हम Zomato
Ltd., कंपनी (ब्रांड/ऐप नहीं) का नाम बदलकर, इटरनल लिमिटेड "का नाम बदलना चाहेंगे। गोयल के
अनुसार, अनन्त एक शक्तिशाली नाम है, और यह उसे अपने मूल में डराता है।
अनुच्छेद 5: Zomato Quick's 'Ek Do Teen' रीमिक्स 10 मिनट की डिलीवरी पुश के लिए
'DUS' में रुकता है; सारांश: एक फूड ऑर्डरिंग और डिलीवरी प्लेटफॉर्म, ज़ोमैटो ने अपनी 10 मिनट की
खाद्य वितरण सेवा ज़ोमैटो क्विक के लिए अपने नवीनतम अभियान के शुभारंभ की घोषणा की। चार विज्ञापन
'एक डो टीन' गीत पर एक मोड़ का उपयोग करते हैं, जो 10 मिनट की डिलीवरी को उजागर करने के लिए
'डस' पर रोकते हैं। इस लेख में एक नकारात्मक भावना है।
अनुच्छेद 6: Zomato पर नवीनतम समाचार: फ़ोटो, वीडियो और नवीनतम समाचार सुर्खियों के साथ
Zomato समाचार अपडेट प्राप्त करें | भारतीय एक्सप्रेस; सारांश: 06 फरवरी, 2025 10:31 अपराह्न
शाश्वत में चार प्रमुख व्यावसायिक खंड शामिल होंगे: ज़ोमैटो की खाद्य वितरण सेवा, ब्लिंकट क्विक-कॉमर्स
यूनिट, डिस्ट्रिक्ट्स लाइव इवेंट्स बिजनेस, और हाइपरप्योर की किचन सप्लाई यूनिट, कंपनी ने कहा। इस
लेख में एक सकारात्मक भावना है।
अनुच्छेद 7: अनन्त लिमिटेड (Zomato.ns) स्टॉक मूल्य, समाचार, उद्धरण और इतिहास - याहू वित्त;
सारांश: कंपनी Zomato ब्रांड नाम के तहत एक B2C प्रौद्योगिकी मंच का संचालन करती है, जो रेस्तरां को
खोजने और खोजने, भोजन वितरण का आदेश देने, ग्राहक उत्पन्न समीक्षाओं को पढ़ने और लिखने, फ़ोटो
देखने और अपलोड करने में मदद करती है, और एक टेबल बुक करती है और रेस्तरां में डाइनिंग-आउट करते
समय भुगतान करती है, साथ ही साथ खोज और टिकटिंग सेवाएं मुख्य रूप से घटनाओं के लिए, जैसे कि
फूड कार्निवल, म्यूजिक कॉन्सर्ट, कॉमेडी शो, और अन्य। इस लेख में एक सकारात्मक भावना है।
अनुच्छेद 8: Zomato News: आज Zomato News खोजें, नवीनतम समाचार Zomato; सारांश:
लगता है कि आप छवि को बुकमार्क करने की सीमा से अधिक हो गए हैं। इस छवि को बुकमार्क करने के लिए
कुछ निकालें। आपका सत्र समाप्त हो गया है, कृपया फिर से लॉगिन करें। आपका सत्र समाप्त हो गया है,
कृपया फिर से लॉगिन करें। आपका सत्र समाप्त हो गया है, कृपया फिर से लॉगिन करें। आपका सत्र समाप्त
हो गया है, कृपया फिर से लॉगिन करें। इस लेख में एक नकारात्मक भावना है।

```python
hindi_news = '; '.join(translated_news)
print(hindi_news)
```

कंपनी का नाम: ज़ोमेटो; अनुच्छेद 1: IAS अधिकारी ईमेल B-School पूर्व छात्र सूची Zomato Spillage समस्या पर: 'वरिष्ठ प्रबंधक के संपर्क विवरण की आवश्यकता है '| ट्रेंडिंग - हिंदुस्तान टाइम्स; सारांश: एक IAS अधिकारी ने एक वरिष्ठ Zomato के कार्यकारी के संपर्क विवरण का अनुरोध करते हुए, Zomato Spillage मुद्दे पर एक शीर्ष बिजनेस स्कूल की पूरी पूर्व छात्र सूची को ईमेल किया। अपने ईमेल में, बी-स्कूल ग्रेजुएट और आईएएस अधिकारी ने बताया कि गुड़गांव में परिवार के एक सदस्य ने ज़ोमैटो से ऑर्डर करते हुए एक स्पिलेज मुद्दे का अनुभव किया। इस लेख में एक नकारात्मक भावना है।; अनुच्छेद 2: Zomato शेयर की कीमत पुरानी दिवाला याचिका के संभावित पुनरुद्धार के बावजूद 6% से अधिक बढ़ जाती है - भारत आज; सारांश: यह सामने आया है कि नोना लाइफस्टाइल प्राइवेट लिमिटेड ने एक इनसॉल्वेंसी याचिका को बहाल करने के लिए लॉ ट्रिब्यूनल को स्थानांतरित कर दिया है, जिसे उसने 2024 में इन्सॉल्वेंसी एंड दिवालियापन कोड (IBC) की धारा 9 के तहत ज़ोमाटो के खिलाफ पहले दायर किया था। इस लेख में एक नकारात्मक भावना है।; अनुच्छेद 3: लोग मायने रखते हैं - अंतरालीय साइट - लोग मायने रखते हैं; सारांश: हम Zomato Ltd., कंपनी (ब्रांड/ऐप नहीं) का नाम बदलकर, इटरनल लिमिटेड "का नाम बदलना चाहेंगे। गोयल के अनुसार, अनन्त एक शक्तिशाली नाम है, और यह उसे अपने मूल में डराता है।; अनुच्छेद 4: लोग मायने रखते हैं - अंतरालीय साइट - लोग मायने रखते हैं; सारांश: हम Zomato Ltd., कंपनी (ब्रांड/ऐप नहीं) का नाम बदलकर, इटरनल लिमिटेड "का नाम बदलना चाहेंगे। गोयल के अनुसार, अनन्त एक शक्तिशाली नाम है, और यह उसे अपने मूल में डराता है।; अनुच्छेद 5: Zomato Quick's 'Ek Do Teen' रीमिक्स 10 मिनट की डिलीवरी पुश के लिए 'DUS' में रुकता है; सारांश: एक फूड ऑर्डरिंग और डिलीवरी प्लेटफ़ॉर्म, ज़ोमैटो ने अपनी 10 मिनट की खाद्य वितरण सेवा ज़ोमैटो क्विक के लिए अपने नवीनतम अभियान के शुभारंभ की घोषणा की। चार विज्ञापन 'एक डो टीन' गीत पर एक मोड़ का उपयोग करते हैं, जो 10 मिनट की डिलीवरी को उजागर करने के लिए 'डस' पर रोकते हैं। इस लेख में एक नकारात्मक भावना है।; अनुच्छेद 6: Zomato पर नवीनतम समाचार: फ़ोटो, वीडियो और नवीनतम समाचार सुर्खियों के साथ Zomato समाचार अपडेट प्राप्त करें | भारतीय एक्सप्रेस; सारांश: 06 फरवरी, 2025 10:31 अपराह्न शाश्वत में चार प्रमुख व्यावसायिक खंड शामिल होंगे: ज़ोमैटो की खाद्य वितरण सेवा, ब्लिंकट क्विक-कॉमर्स यूनिट, डिस्ट्रिक्ट्स लाइव इवेंट्स बिजनेस, और हाइपरप्योर की किचन सप्लाई यूनिट, कंपनी ने कहा। इस लेख में एक सकारात्मक भावना है।; अनुच्छेद 7: अनन्त लिमिटेड (Zomato.ns) स्टॉक मूल्य, समाचार, उद्धरण और इतिहास - याहू वित्त; सारांश: कंपनी Zomato ब्रांड नाम के तहत एक B2C प्रौद्योगिकी मंच का संचालन करती है, जो रेस्तरां को खोजने और खोजने, भोजन वितरण का आदेश देने, ग्राहक उत्पन्न समीक्षाओं को पढ़ने और लिखने, फ़ोटो देखने और अपलोड करने में मदद करती है, और एक टेबल बुक करती है और रेस्तरां में डाइनिंग-आउट करते समय भुगतान करती है, साथ ही साथ खोज और टिकटिंग सेवाएं मुख्य रूप से घटनाओं के लिए, जैसे कि फूड कार्निवल, म्यूजिक कॉन्सर्ट, कॉमेडी शो, और अन्य। इस लेख में एक सकारात्मक भावना है।; अनुच्छेद 8: Zomato News: आज Zomato News खोजें, नवीनतम समाचार Zomato; सारांश: लगता है कि आप छवि को बुकमार्क करने की सीमा से अधिक हो गए हैं। इस छवि को बुकमार्क करने के लिए कुछ निकालें। आपका सत्र समाप्त हो गया है, कृपया फिर से लॉगिन करें। आपका सत्र समाप्त हो गया है, कृपया फिर से लॉगिन करें। आपका सत्र समाप्त हो गया है, कृपया फिर से लॉगिन करें। आपका सत्र समाप्त हो गया है, कृपया फिर से लॉगिन करें। इस लेख में एक नकारात्मक भावना है।

Text To Speech

```
!pip install gtts
```

```
Collecting gtts
  Downloading gTTS-2.5.4-py3-none-any.whl.metadata (4.1 kB)
Requirement already satisfied: requests<3,>=2.27 in
/usr/local/lib/python3.11/dist-packages (from gtts) (2.32.3)
Requirement already satisfied: click<8.2,>=7.1 in
/usr/local/lib/python3.11/dist-packages (from gtts) (8.1.8)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gtts)
(3.4.1)
Requirement already satisfied: idna<4,>=2.5 in
/usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gtts)
(3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gtts)
(2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gtts)
(2025.1.31)
Downloading gTTS-2.5.4-py3-none-any.whl (29 kB)
Installing collected packages: gtts
Successfully installed gtts-2.5.4
```

```python
from gtts import gTTS
import os
from tqdm import tqdm

import io

def text_to_speech(text, language='hi'):
    """
    Converts text to speech and returns the MP3 as a BytesIO object.
    """
    # Generate speech
    tts = gTTS(text=text, lang=language, slow=False)

    # Store in a BytesIO object instead of saving to a file
    audio_buffer = io.BytesIO()
    tts.write_to_fp(audio_buffer)
    audio_buffer.seek(0)  # Move cursor to the beginning

    return audio_buffer  # This can be used directly in APIs or Gradio

hindi_news_audio = text_to_speech(hindi_news)

import IPython.display as ipd

# Play the audio
ipd.Audio(hindi_news_audio.getvalue(), rate=22050)

<IPython.lib.display.Audio object>
```

Analysis

```
df
```

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is regarding my family member's recent order from Chicago Pizza in Gurgaon via Zomato, where the soft drinks were spilled due to poor packaging. Both the Zomato chat support and the restaurant owner refused to take responsibility, instead shifting the blame to the delivery boy,\\u201d he explained. \\u201cDespite the evident packaging issue, the restaurant denied any fault and even stated, If you want to complain about us to Zomato, go ahead,\\u201d the bureaucrat claimed. HT.com has not independently verified the authenticity of this information. While sharing the screenshot, the X account blurred out the name of the IAS officer. The email proved polarising on X, where some said there was nothing wrong with an IAS officer using the resources at his disposal to address a complaint. Others, however, called it a misuse of power. \\u201cIf he can mail this to his batch, imagine the kind of mails he'll be writing to his staff there!\\u201d wrote one X user. \\u201cBureaucracy yields power in democracy because they are neither answerable nor elected,\\u201d another opined. However, a third X user wrote: \\u201cSo? What is wrong with it? It's good that he is on it. You spend money for services, it isn't for free. I thank him for doing this because he can get things right for even other customers.\\u201d In agreeing with him, another X user added: \\u201cBahut shi kiya,these delivery apps have started to suck lately, they will keep shifting responsibility and god forbid you have to talk to their customer care. It always goes to some automated voice and this might be most wahiyat concern for you but this is surely most wahiyat customer service.\\u201d\",\n \"Listen to Story Shares of food delivery giant Zomato gained sharply during the trading session even as it may face an insolvency plea after one of its operational creditors moved the National Company Law Tribunal (NCLT). It has come to light that Nona Lifestyle Private Limited has moved the law tribunal to restore an insolvency plea that it had filed earlier against Zomato under Section 9 of the Insolvency and Bankruptcy Code (IBC) in 2024. Despite the insolvency plea, Zomato shares have not been impacted. In fact, they were trading 6.13% higher at Rs 216.35 on the Bombay Stock Exchange (BSE) at 2:42 pm. It had earlier reached an intraday high of Rs 216.50. As far as the Zomato stock is concerned, it is up over 4% in the past five trading sessions, down 22% in the past six months and this year, but up over 36% in a year. NCLT had earlier dismissed Nona Lifestyles case due to \\\"non-prosecution,\\\" but the company now wants to bring it back. Nona Lifestyle has reportedly filed an application under Rule 11 of the NCLT Rules, 2016, which allows the tribunal to revive old petitions. The company has urged the Delhi NCLT bench to admit its application and kickstart the Corporate Insolvency Resolution Process (CIRP) against Zomato. The matter was heard on Monday by a two-member NCLT bench, including Ashok K Bhardwaj and Reena Sinha Puri, but the case was pushed to April. Nona Lifestyle, which deals in apparel, supplied uniforms and merchandise for Zomato's employees and delivery partners, including branded gear for the ICC World Cup 2023. The company has claimed that Zomato defaulted on payments, delayed

transactions, and didnt take full delivery of the goods. It is demanding Rs 1.64 crore (including interest), but Zomato's lawyers have denied the claim, arguing that a \\\"pre-existing dispute\\\" exists.Published By: Koustav DasPublished On: Mar 18, 2025\",\n \"Eternal Limited primarily operates as an online food delivery company in India and internationally. It operates through India Food Ordering and Delivery, Hyperpure supplies (B2B business), Quick Commerce, Going Out, and All Other segments. The company operates a B2C technology platform under Zomato brand name that helps to search and discover restaurants, order food delivery, read and write customer generated reviews, view and upload photos, and book a table and make payments while dining-out at restaurants, as well as discovery and ticketing services primarily for events, such as food carnivals, music concerts, comedy shows, and others. Its technology platform connects customers, restaurant partners, and delivery partners. The company also operates Hyperpure, a procurement solution that supplies ingredients and kitchen products to restaurant partners; and Blinkit, a quick commerce marketplace delivering everyday products to customers within minutes. In addition, it engages in the provision of event organizing, and payment aggregator and gateway services; and engages in the trading, financing, and investment activities. The company was formerly known as Zomato Limited and changed its name to Eternal Limited in March 2025. The company was incorporated in 2010 and is headquartered in Gurugram, India. 3,988 March 31 Consumer Cyclical Internet Retail Trailing total returns as of 3/21/2025, which may include dividends or other distributions. Benchmark is S&P BSE SENSEX (^BSESN) . Select to analyze similar companies using key performance metrics; select up to 4 stocks. Market Cap 2.06T Enterprise Value 2.04T Trailing P/E 303.36 Forward P/E -- PEG Ratio (5yr expected) -- Price/Sales (ttm) 11.31 Price/Book (mrq) 9.67 Enterprise Value/Revenue 11.36 Enterprise Value/EBITDA 128.21 Profit Margin 3.69% Return on Assets (ttm) -- Return on Equity (ttm) -- Revenue (ttm) 179.72B Net Income Avi to Common (ttm) 6.63B Diluted EPS (ttm) 0.75 Total Cash (mrq) 18.81B Total Debt/Equity (mrq) 5.44% Levered Free Cash Flow (ttm) --\"\n   ],\n   \"semantic_type\": \"\",\n \"description\": \"\"\n   }\n   },\n   {\n   \"column\": \"summary\",\n   \"properties\": {\n   \"dtype\": \"string\",\n   \"num_unique_values\": 7,\n   \"samples\": [\n \"An IAS officer purportedly emailed the entire alumni list of a top business school over a Zomato spillage issue, requesting the contact details of a senior Zomato executive. In his email, the B-school graduate and IAS officer explained that a family member in Gurgaon experienced a spillage issue while ordering from Zomato.\",\n \"It has come to light that Nona Lifestyle Private Limited has moved the law tribunal to restore an insolvency plea that it had filed earlier against Zomato under Section 9 of the Insolvency and Bankruptcy Code (IBC) in 2024.\",\n   \"The company operates a B2C technology platform under Zomato brand name that helps to search and discover restaurants, order food delivery, read and write customer

generated reviews, view and upload photos, and book a table and make
payments while dining-out at restaurants, as well as discovery and
ticketing services primarily for events, such as food carnivals, music
concerts, comedy shows, and others.\"\n   ],\n
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[\n   \"IAS officer emails B-school alumni list over Zomato
spillage issue: \\u2018Need contact details of senior manager\\u2019 |
Trending - Hindustan Times An IAS officer purportedly emailed the
entire alumni list of a top business school over a Zomato spillage
issue, requesting the contact details of a senior Zomato executive. In
his email, the B-school graduate and IAS officer explained that a
family member in Gurgaon experienced a spillage issue while ordering
from Zomato.\",\n   \"Zomato share price surges over 6% despite
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under Section 9 of the Insolvency and Bankruptcy Code (IBC) in
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Quote & History - Yahoo Finance The company operates a B2C technology
platform under Zomato brand name that helps to search and discover
restaurants, order food delivery, read and write customer generated
reviews, view and upload photos, and book a table and make payments
while dining-out at restaurants, as well as discovery and ticketing
services primarily for events, such as food carnivals, music concerts,
comedy shows, and others.\"\n   ],\n   \"semantic_type\":
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```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8 entries, 0 to 7
Data columns (total 16 columns):
 #   Column                Non-Null Count  Dtype
---  ------                --------------  -----
 0   title                 8 non-null      object
 1   link                  8 non-null      object
 2   source                8 non-null      object
 3   article_text          8 non-null      object
 4   summary               8 non-null      object
 5   sentiment             8 non-null      object
 6   combined_text         8 non-null      object
 7   top_topics            8 non-null      object
 8   dominant_topic        8 non-null      int64
 9   topic_distribution    8 non-null      object
 10  similarity_scores     8 non-null      float64
 11  most_similar_article  8 non-null      int64
 12  least_similar_article 8 non-null      int64
 13  coverage_comparison   8 non-null      object
 14  sentiment_label       8 non-null      object
 15  unique_topics         8 non-null      object
```

```
dtypes: float64(1), int64(3), object(12)
memory usage: 1.1+ KB

df.describe()
```

```
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```

```
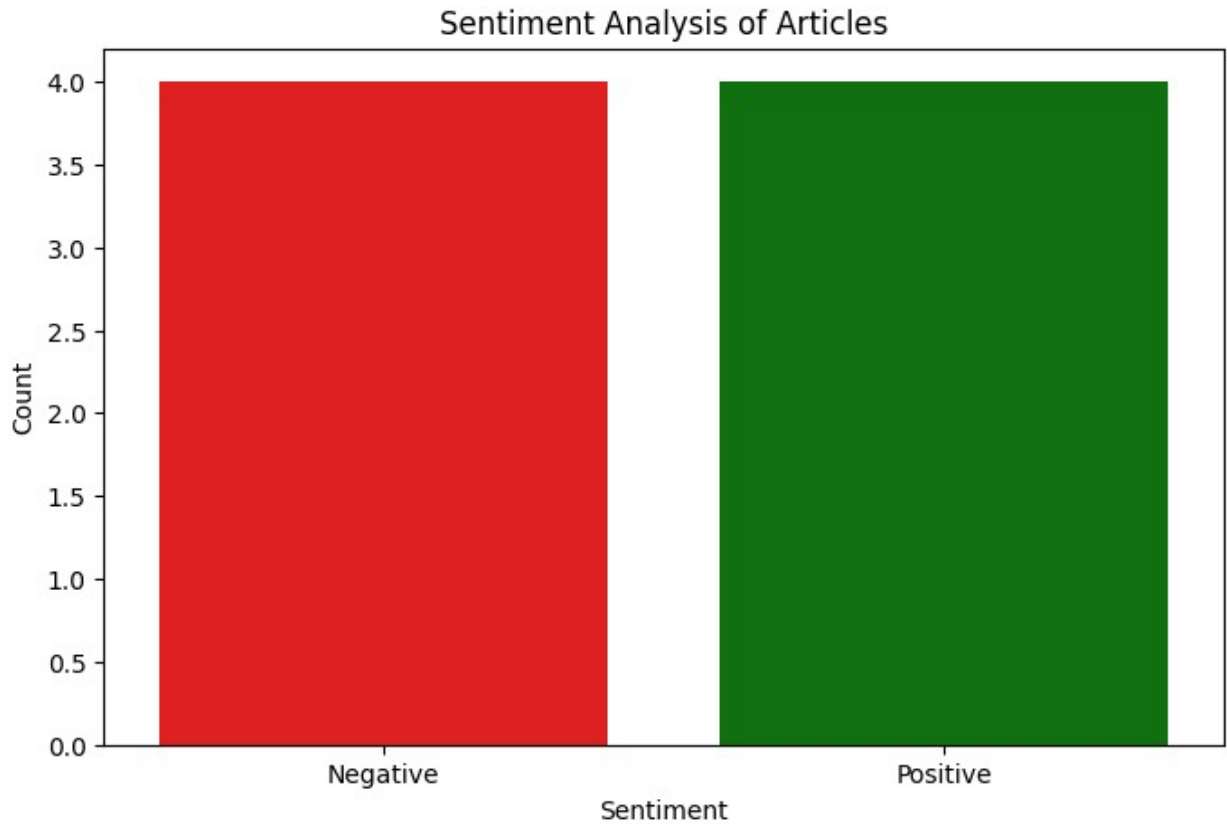plt.figure(figsize=(8, 5))
sns.countplot(x=df['sentiment_label'], palette={'Positive': 'green',
'Negative': 'red', 'Neutral': 'gray'})

plt.title("Sentiment Analysis of Articles")
plt.xlabel("Sentiment")
plt.ylabel("Count")
plt.show()
```

```
<ipython-input-52-da06fa5fbd98>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be
removed in v0.14.0. Assign the `x` variable to `hue` and set
`legend=False` for the same effect.

  sns.countplot(x=df['sentiment_label'], palette={'Positive': 'green',
'Negative': 'red', 'Neutral': 'gray'})
```

Sentiment Analysis of Articles

```python
# Count occurrences of each sentiment label
sentiment_counts = df['sentiment_label'].value_counts()

# Define colors for each sentiment category
colors = {'Positive': 'green', 'Negative': 'red', 'Neutral': 'gray'}

# Plot pie chart
plt.figure(figsize=(7, 7))
plt.pie(sentiment_counts, labels=sentiment_counts.index,
autopct='%1.1f%%', colors=[colors[label] for label in
sentiment_counts.index])
plt.title("Sentiment Distribution of Articles")
plt.show()
```

Sentiment Distribution of Articles
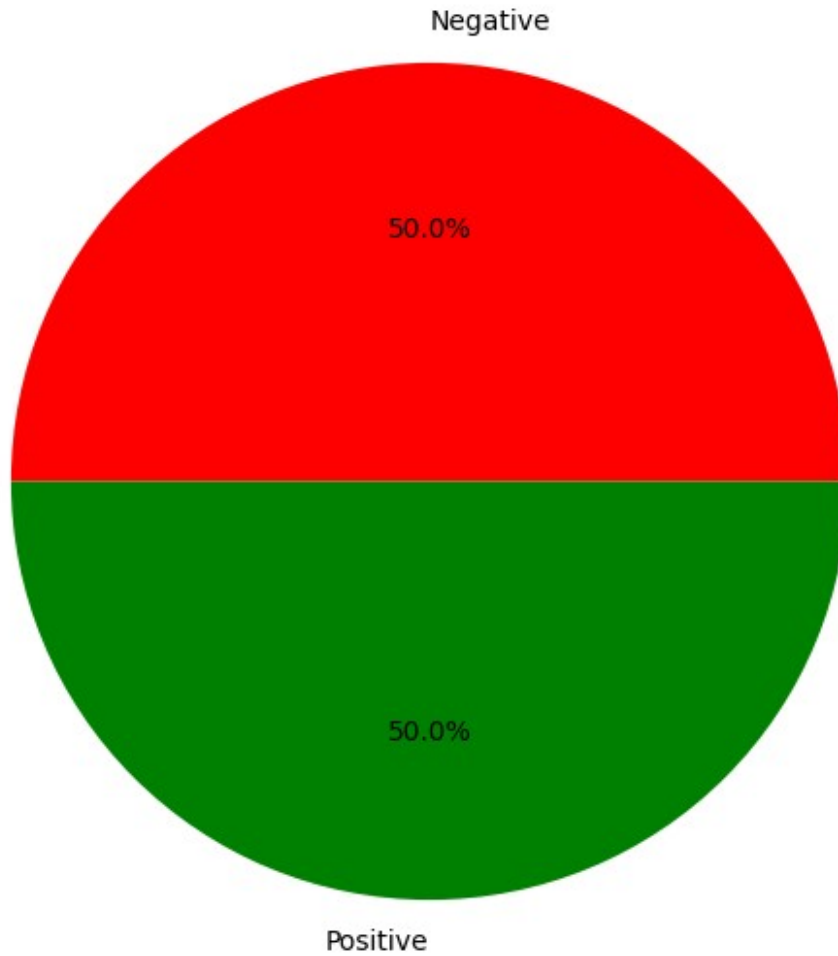

```
df['article_length'] = df['article_text'].apply(lambda x: len(str(x)))
df['summary_length'] = df['summary'].apply(lambda x: len(str(x)))
print(df[['article_length', 'summary_length']].describe())
```

```
       article_length  summary_length
count         8.00000        8.000000
mean       1882.00000      254.625000
std         643.83982       81.071287
min         606.00000      165.000000
25%        1790.25000      208.500000
50%        1887.00000      237.000000
75%        2130.00000      291.750000
max        2815.00000      405.000000
```

```
plt.figure(figsize=(10,5))
sns.countplot(y=df['dominant_topic'],
```

```
order=df['dominant_topic'].value_counts().index)
plt.title("Distribution of Dominant Topics")
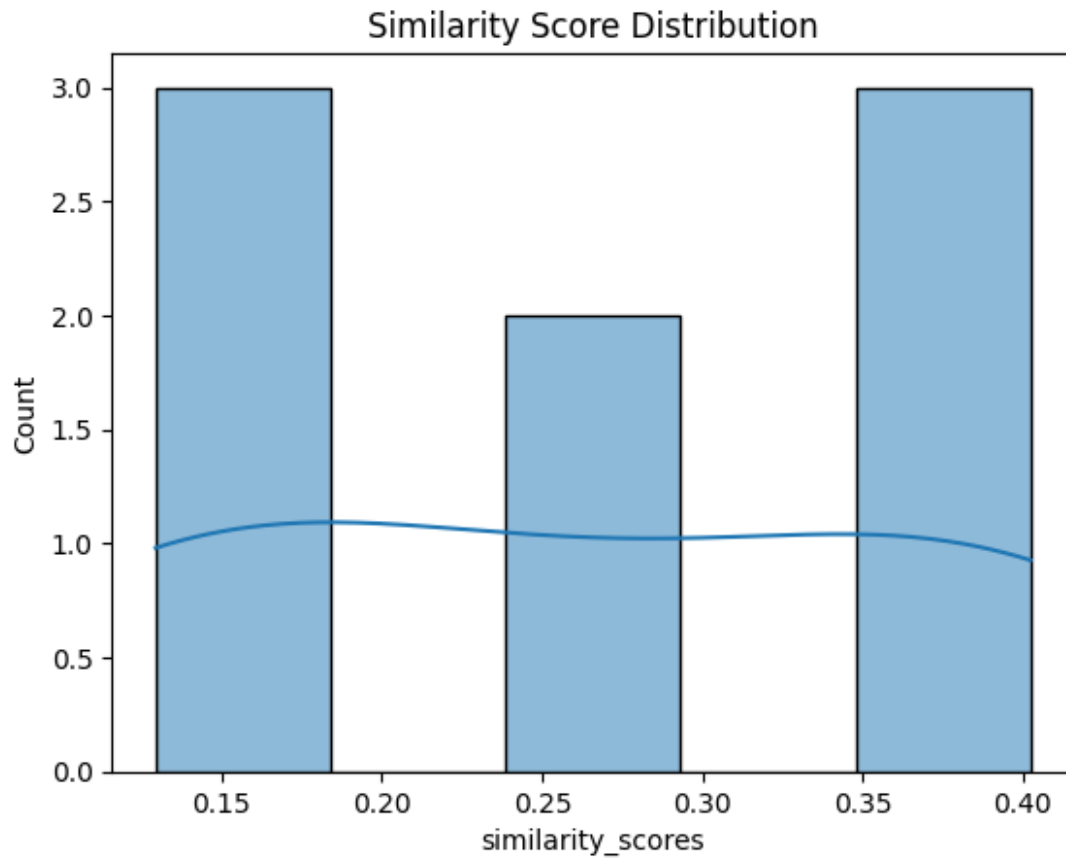plt.show()
```


Distribution of Dominant Topics
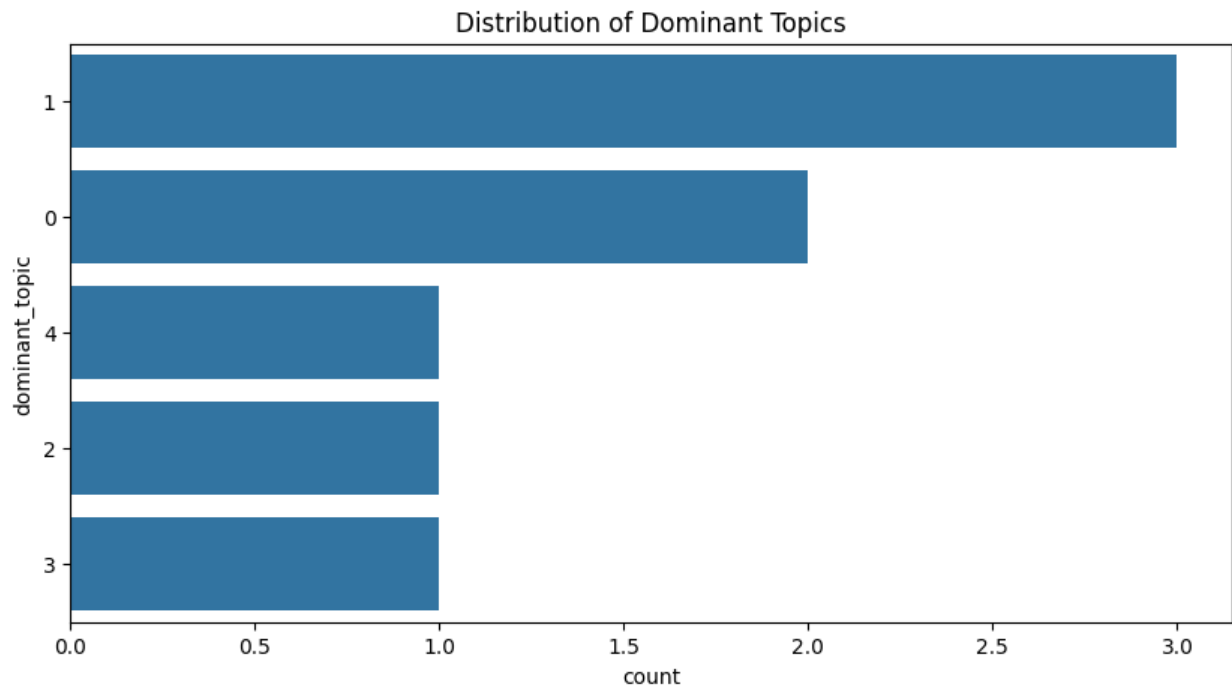
```
df['most_similar_article'].value_counts().plot(kind='bar')
plt.title("Most Referenced Similar Articles")
plt.xlabel("Article Index")
plt.ylabel("Count")
plt.show()
```

Most Referenced Similar Articles
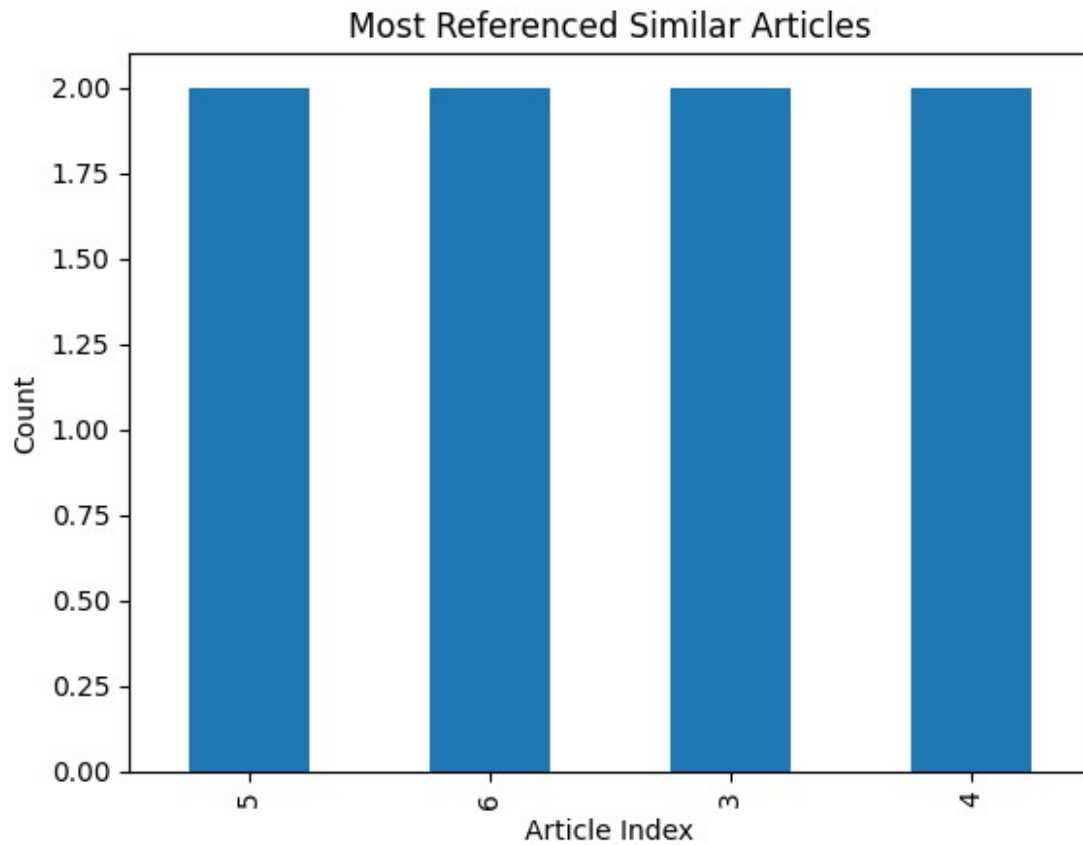
```
df['least_similar_article'].value_counts().plot(kind='bar',
color='red')
plt.title("Least Referenced Similar Articles")
plt.xlabel("Article Index")
plt.ylabel("Count")
plt.show()
```

Least Referenced Similar Articles
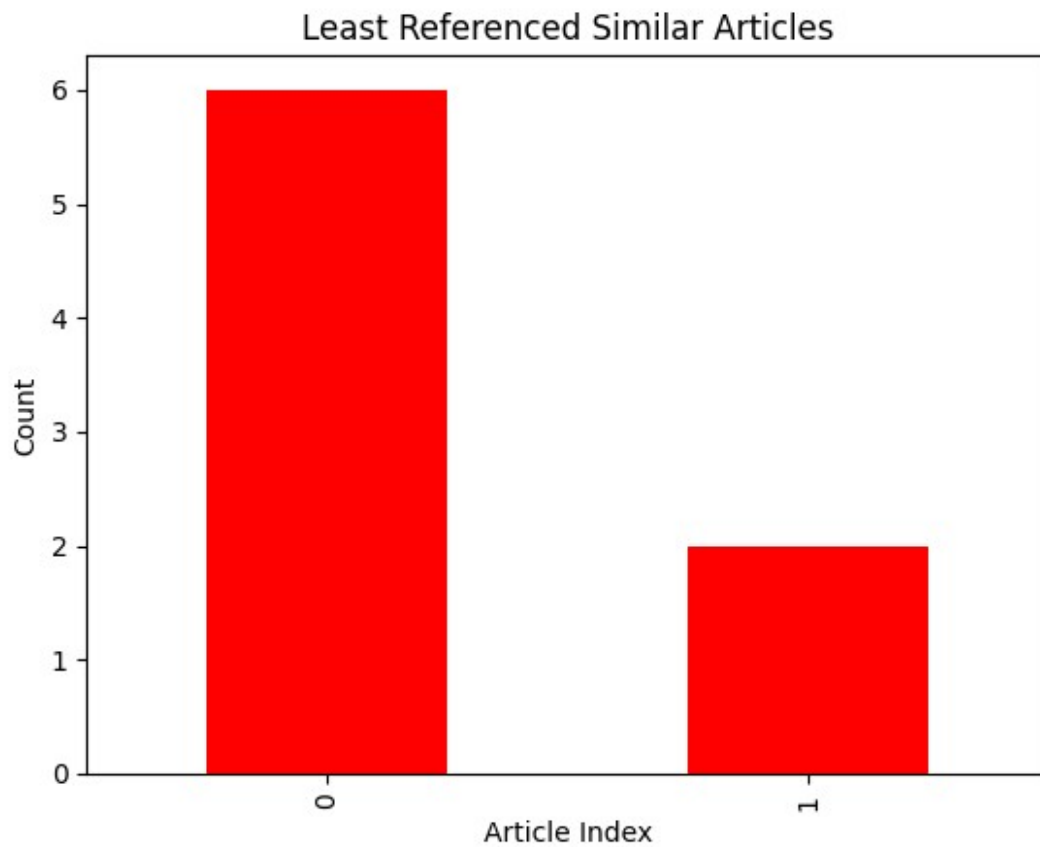
```
sns.histplot(df['similarity_scores'], bins=5, kde=True)
plt.title("Similarity Score Distribution")
plt.show()
```

Similarity Score Distribution


```python
from wordcloud import WordCloud

text = " ".join(df['article_text'])
wordcloud = WordCloud(width=800, height=400,
background_color="white").generate(text)

plt.figure(figsize=(10,5))
plt.imshow(wordcloud, interpolation="bilinear")
plt.axis("off")
plt.show()
```

```python
for sentiment in df['sentiment_label'].unique():
    text = " ".join(df[df['sentiment_label'] == sentiment]
['article_text'])
    wordcloud = WordCloud(width=800, height=400,
background_color="white").generate(text)

    plt.figure(figsize=(10,5))
    plt.imshow(wordcloud, interpolation="bilinear")
    plt.axis("off")
    plt.title(f"WordCloud for {sentiment} Sentiment Articles")
    plt.show()
```

WordCloud for Negative Sentiment Articles
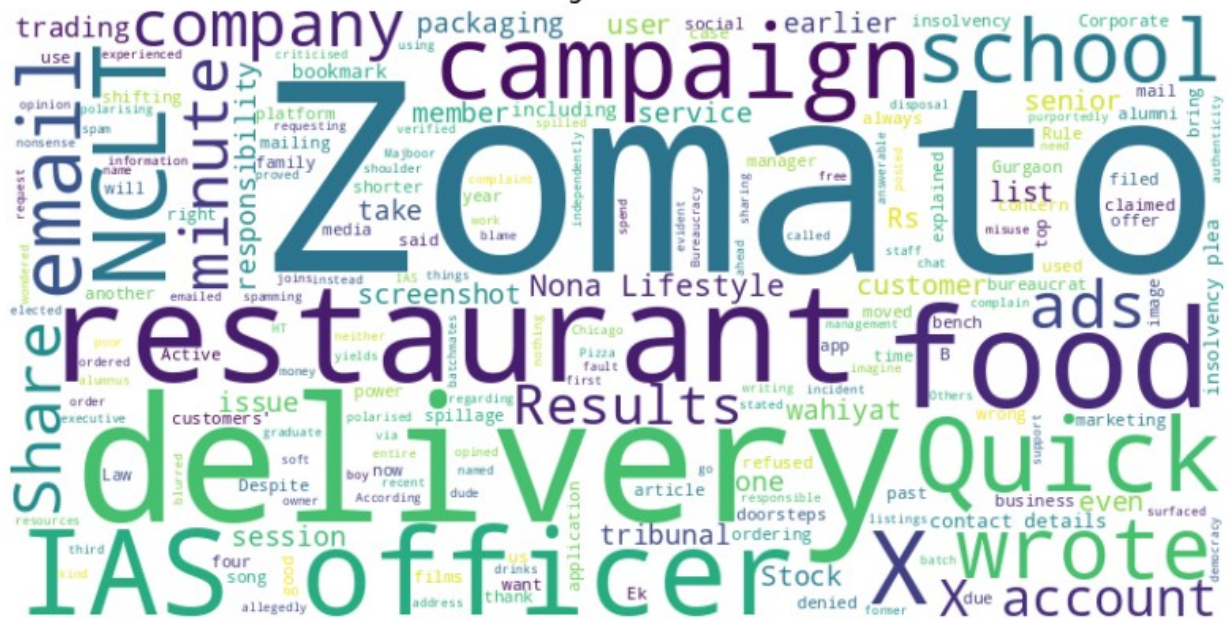
WordCloud for Positive Sentiment Articles
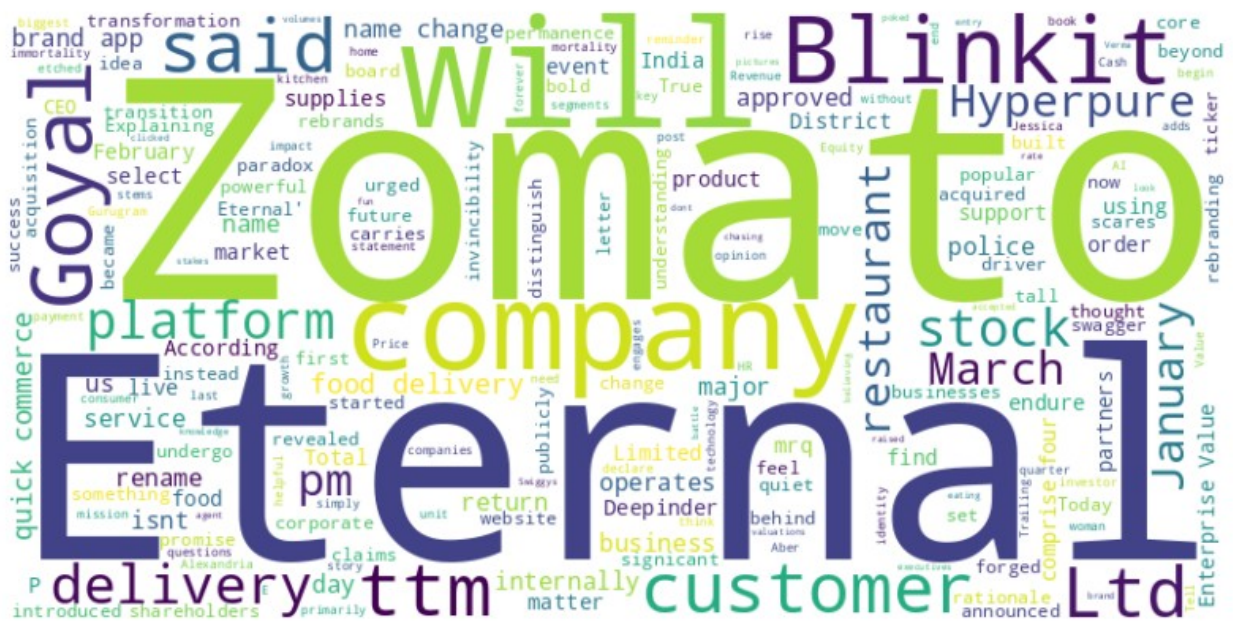
```python
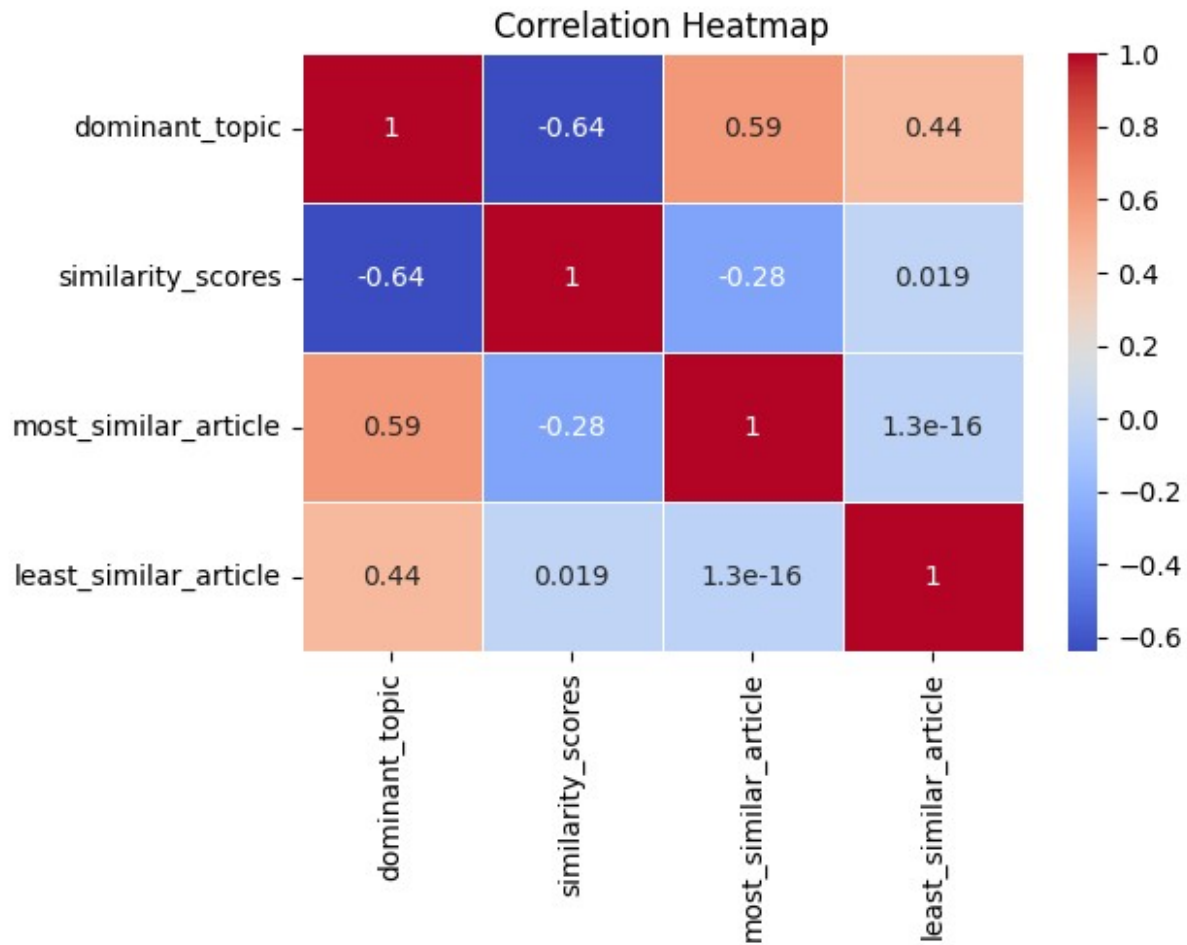correlation_matrix = df[['dominant_topic', 'similarity_scores',
'most_similar_article', 'least_similar_article']].corr()

plt.figure(figsize=(6,4))
sns.heatmap(correlation_matrix, annot=True, cmap="coolwarm",
linewidths=0.5)
plt.title("Correlation Heatmap")
plt.show()
```

Correlation Heatmap

	dominant_topic	similarity_scores	most_similar_article	least_similar_article
dominant_topic	1	-0.64	0.59	0.44
similarity_scores	-0.64	1	-0.28	0.019
most_similar_article	0.59	-0.28	1	1.3e-16
least_similar_article	0.44	0.019	1.3e-16	1

```python
df.groupby("sentiment")['article_length'].mean().plot(kind='bar',
color=['red', 'blue', 'green'])
plt.title("Average Article Length by Sentiment")
plt.xlabel("Sentiment")
plt.ylabel("Average Length")
plt.show()
```

Average Article Length by Sentiment
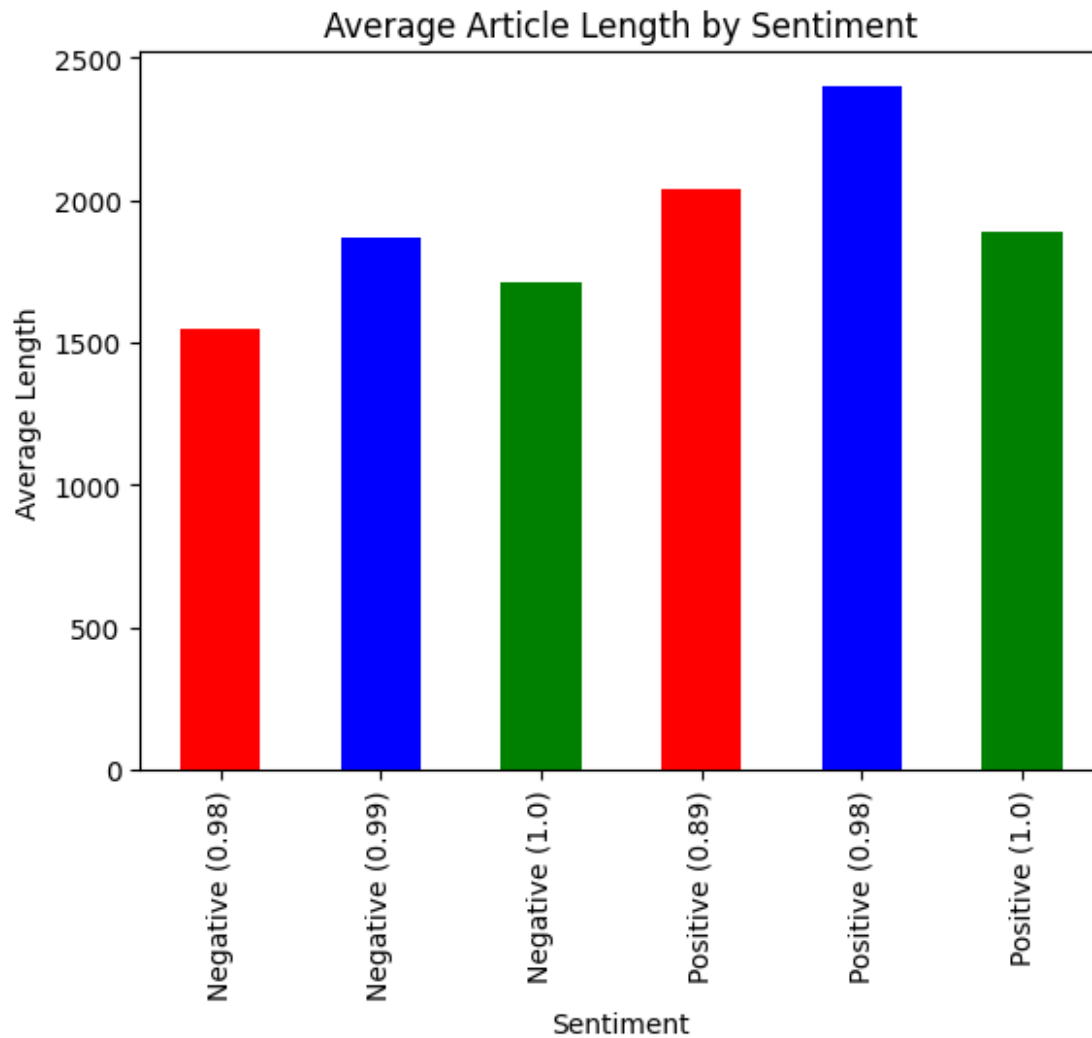
```
plt.figure(figsize=(10,5))
sns.countplot(x=df['dominant_topic'], hue=df['sentiment'])
plt.title("Sentiment Distribution Across Topics")
plt.xlabel("Dominant Topic")
plt.ylabel("Count")
plt.legend(title="Sentiment")
plt.show()
```

Sentiment Distribution Across Topics
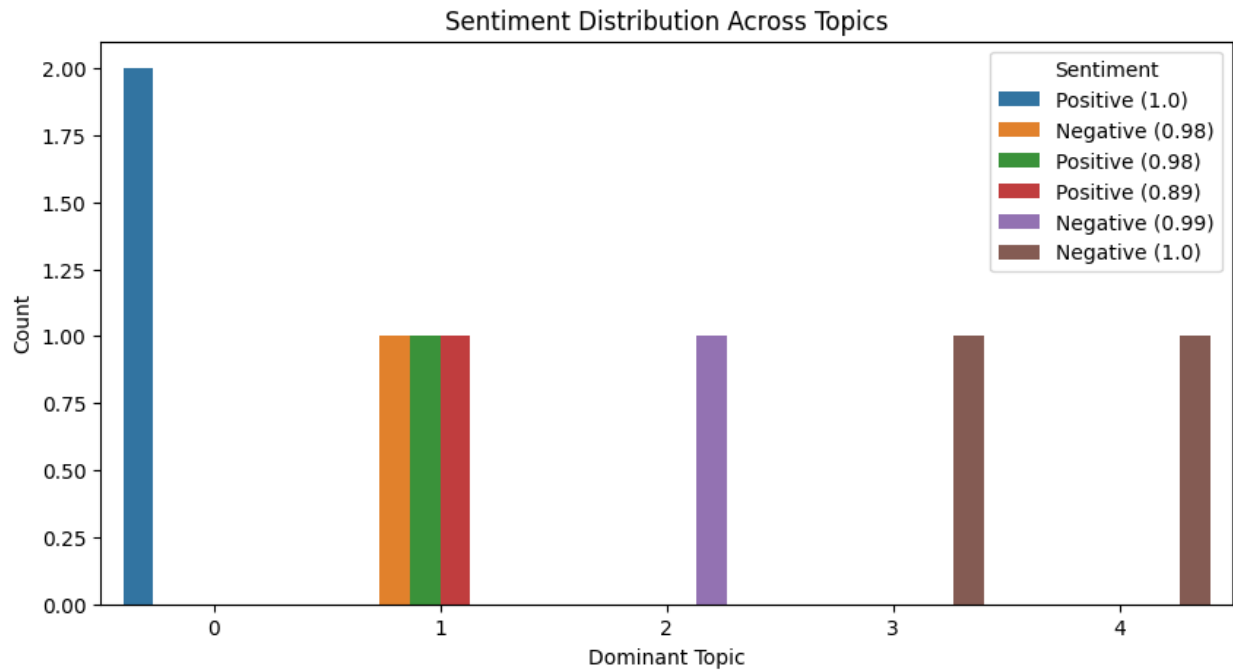
```
plt.figure(figsize=(10,5))
sns.countplot(y=df['source'], hue=df['sentiment_label'])
plt.title("Sentiment by News Source")
plt.xlabel("Count")
plt.ylabel("News Source")
plt.legend(title="Sentiment")
plt.show()
```


Sentiment by News Source