

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

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     return datetime.utcnow().replace(tzinfo=utc)
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```

Task 2: Topic Modeling on News Articles

Description:

- Dataset (Recommended): BBC News Dataset (Kaggle).
- Discover hidden topics or themes in a collection of news articles or blog posts
- Preprocess the text: tokenization, lowercasing, stopword removal
- · Apply Latent Dirichlet Allocation (LDA) to extract dominant topics Display the most significant words per topic.

Double-click (or enter) to edit

→		title	pubDate	guid	link	description	
	0	Ukraine: Angry Zelensky vows to punish Russian	Mon, 07 Mar 2022 08:01:56 GMT	https://www.bbc.co.uk/news/world- europe-60638042	https://www.bbc.co.uk/news/world- europe-606380	The Ukrainian president says the country will	11.
	1	War in Ukraine: Taking cover in a town under a	Sun, 06 Mar 2022 22:49:58 GMT	https://www.bbc.co.uk/news/world- europe-60641873	https://www.bbc.co.uk/news/world- europe-606418	Jeremy Bowen was on the frontline in Irpin, as	
	2	Ukraine war 'catastrophic for global food'	Mon, 07 Mar 2022 00:14:42 GMT	https://www.bbc.co.uk/news/business-60623941	https://www.bbc.co.uk/news/business-60623941?a	One of the world's biggest fertiliser firms sa	
	3	Manchester Arena bombing: Saffie Roussos's par	Mon, 07 Mar 2022 00:05:40 GMT	https://www.bbc.co.uk/news/uk-60579079	https://www.bbc.co.uk/news/uk-60579079?at_medi	The parents of the Manchester Arena bombing's	

New interactive sheet

```
Next steps: ( Generate code with df
                                 View recommended plots
#EDA
df.shape
→ (42115, 5)
df.info()
<<class 'pandas.core.frame.DataFrame'>
    RangeIndex: 42115 entries, 0 to 42114
    Data columns (total 5 columns):
     # Column
                      Non-Null Count Dtype
     ---
     0 title
                      42115 non-null object
     1 pubDate
                      42115 non-null object
                      42115 non-null object
         guid
         link
                      42115 non-null object
     4 description 42115 non-null object
    dtypes: object(5)
```

memory usage: 1.6+ MB

df.isnull().sum()

https://colab.research.google.com/drive/1kgr-dVujFZMzgjMbc04abkiOI7FYnbVP#scrollTo=FNYqYvUcskt3&printMode=true

```
₹
          title
                     0
        pubDate
                    0
          guid
          link
                     0
       description 0
      dtype: int64
df.duplicated().sum()
→ 0
df.sample(4)
₹
                       title
                                   pubDate
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                                                                                                                                       link
                                                                                                                                                   description
                      London
                                                                                                                                                                     ıl.
                                Fri, 06 May
                                                                                                                                                  What does the
                     election
                                      2022
                                                   https://www.bbc.co.uk/news/uk-england-
                                                                                              https://www.bbc.co.uk/news/uk-england-london-
                                                                                                                                                          loss of
       2637
                 results 2022:
                                   10:38:24
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                                                                                london-6...
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                  Is my family
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               still alive? The
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       31443
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                 delays: How
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                                                                                               https://www.bbc.co.uk/news/health-63573718?
                                                                                                                                                   shows delays
       10236
                                              https://www.bbc.co.uk/news/health-63573718
                 bad are they
                                   11:35:06
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df = df[['title','description']]
df.head()
<del>____</del>
                                                                                                                   丽
                                                      title
                                                                                                  description
          Ukraine: Angry Zelensky vows to punish Russian...
                                                                 The Ukrainian president says the country will ...
             War in Ukraine: Taking cover in a town under a...
                                                                Jeremy Bowen was on the frontline in Irpin, as...
       2
                    Ukraine war 'catastrophic for global food'
                                                                   One of the world's biggest fertiliser firms sa...
          Manchester Arena bombing: Saffie Roussos's par... The parents of the Manchester Arena bombing's ...
                 Ukraine conflict: Oil price soars to highest I...
                                                               Consumers are feeling the impact of higher ene...
                Generate code with df
                                          View recommended plots
                                                                            New interactive sheet
df['text'] = df['title'].astype(str) + " " + df['description'].astype(str)
df = df[['text']]
df.head()
₹
                                                               \blacksquare
                                                       text
       0 Ukraine: Angry Zelensky vows to punish Russian...
             War in Ukraine: Taking cover in a town under a...
              Ukraine war 'catastrophic for global food' One...
          Manchester Arena bombing: Saffie Roussos's par...
                 Ukraine conflict: Oil price soars to highest I...
 Next steps:
               Generate code with df
                                          View recommended plots
                                                                            New interactive sheet
```

Preprocessing

```
import re
import nltk
nltk.download('stopwords')
nltk.download('punkt')
 [nltk_data] Downloading package stopwords to /root/nltk data...
      [nltk data]
                      Package stopwords is already up-to-date!
      [nltk_data] Downloading package punkt to /root/nltk_data...
      [nltk_data] Package punkt is already up-to-date!
      True
import spacy
import re
from nltk.corpus import stopwords
import en_core_web_sm
stop_words = set(stopwords.words('english'))
nlp = en_core_web_sm.load()
def preprocess(text):
    text = text.lower()
    text = re.sub(r'[^a-zA-Z\s]', '', text)
    doc = nlp(text)
    tokens = [token.lemma_ for token in doc
                if token.lemma_ not in stop_words and len(token) > 2]
    return tokens
df['tokens'] = df['text'].apply(preprocess)
df[['text', 'tokens']].head(10)
<del>_</del>
                                                      text
                                                                                                   tokens
       0 Ukraine: Angry Zelensky vows to punish Russian...
                                                              [ukraine, angry, zelensky, vow, punish, russia...
            War in Ukraine: Taking cover in a town under a...
                                                                [war, ukraine, take, cover, town, attack, jere...
       2
              Ukraine war 'catastrophic for global food' One...
                                                               [ukraine, war, catastrophic, global, food, one...
       3 Manchester Arena bombing: Saffie Roussos's par... [manchester, arena, bombing, saffie, roussoss,...
       4
                Ukraine conflict: Oil price soars to highest I...
                                                                   [ukraine, conflict, oil, price, soar, high, le...
       5
             Ukraine war: PM to hold talks with world leade...
                                                                [ukraine, war, hold, talk, world, leader, sanc...
       6
            Ukraine war: UK grants 50 Ukrainian refugee vi...
                                                               [ukraine, war, grant, ukrainian, refugee, visa...
       7
                TikTok limits services as Netflix pulls out of...
                                                                    [tiktok, limit, service, netflix, pull, russia...
              Covid: Fourth jab for Scotland's vulnerable, a...
                                                                [covid, fourth, jab, scotland, vulnerable, tes...
          Protests across Russia see thousands detained ...
                                                               [protest, across, russia, see, thousand, detai...
```

TfidfVectorizer

```
from sklearn.feature_extraction.text import TfidfVectorizer

# Initialize TfidfVectorizer

tfidf_vectorizer = TfidfVectorizer(max_df=0.95, min_df=2, max_features=1000) # stop_words='english' is not needed as we removed stop words i

# Fit and transform the processed text

tfidf_matrix = tfidf_vectorizer.fit_transform(df['tokens'].astype(str)) # Use 'tokens' column and convert to string

print("TF-IDF matrix shape:", tfidf_matrix.shape)

TF-IDF matrix shape: (42115, 1000)
```

LDA (Latent Dirichlet Allocation)

```
from sklearn.decomposition import LatentDirichletAllocation
# Initialize LDA model
# You can adjust n_components (number of topics) as needed
lda_model = LatentDirichletAllocation(n_components=10, random_state=42)
# Fit LDA model to the TF-IDF matrix
lda_matrix = lda_model.fit_transform(tfidf_matrix)
print("LDA matrix shape:", lda_matrix.shape)
→ LDA matrix shape: (42115, 10)
# Get the feature names (words) from the TF-IDF vectorizer
feature_names = tfidf_vectorizer.get_feature_names_out()
# Function to display the top words for each topic
def display_topics(model, feature_names, no_top_words):
    for topic_idx, topic in enumerate(model.components_): # Corrected attribute name
        print(f"Topic {topic_idx + 1}:")
        print(" ".join([feature_names[i]
                        for i in topic.argsort()[:-no_top_words - 1:-1]]))
   print("\n")
# Display the top 10 words for each topic
no_top_words = 10
display_topics(lda_model, feature_names, no_top_words)
→ Topic 1:
     police man kill murder say die death find woman arrest
     Topic 2:
     ukraine war strike russian russia say ukrainian putin attack israel
     Topic 3:
     say school ban sell new firm online work use woman
     Topic 4:
     rise cost price energy rate bill people say food high
     storm weather image picture world climate year across around flood
     Topic 6:
     cup world league england win manchester beat final united city
     election minister say labour party sunak vote tory leader covid
     Topic 8:
     paper medium social front page lead asylum say protest migrant
     trump england win gold test paris president olympic south africa
     Topic 10:
     star queen king die film show year say royal singer
import matplotlib.pyplot as plt
def plot_top_words(model, feature_names, no_top_words=10, title="Top Words per Topic"):
   Plots the top words for each topic in a topic model.
   Parameters:
    - model: Fitted topic model (e.g., LDA, NMF)
    - feature_names: List of feature names (e.g., vocabulary)
   - no_top_words: Number of top words to display per topic
    - title: Overall plot title
   n_topics = model.n_components
   n_rows = (n_topics + 1) // 2 # Arrange in 2 columns
    fig, axes = plt.subplots(
        n_rows, 2, figsize=(12, n_rows * 4), sharex=True
    axes = axes.flatten()
    for topic_idx, topic in enumerate(model.components_):
        top_indices = topic.argsort()[:-no_top_words - 1:-1]
        top_features = [feature_names[i] for i in top_indices]
        weights = topic[top_indices]
        ax = axes[topic_idx]
```

```
ax.barh(top_features, weights, height=0.6, color='skyblue', edgecolor='black')
ax.set_title(f"Topic {topic_idx + 1}", fontsize=12, weight='bold')
ax.invert_yaxis()
ax.tick_params(axis='both', which='major', labelsize=10)
for spine in ["top", "right", "left"]:
    ax.spines[spine].set_visible(False)

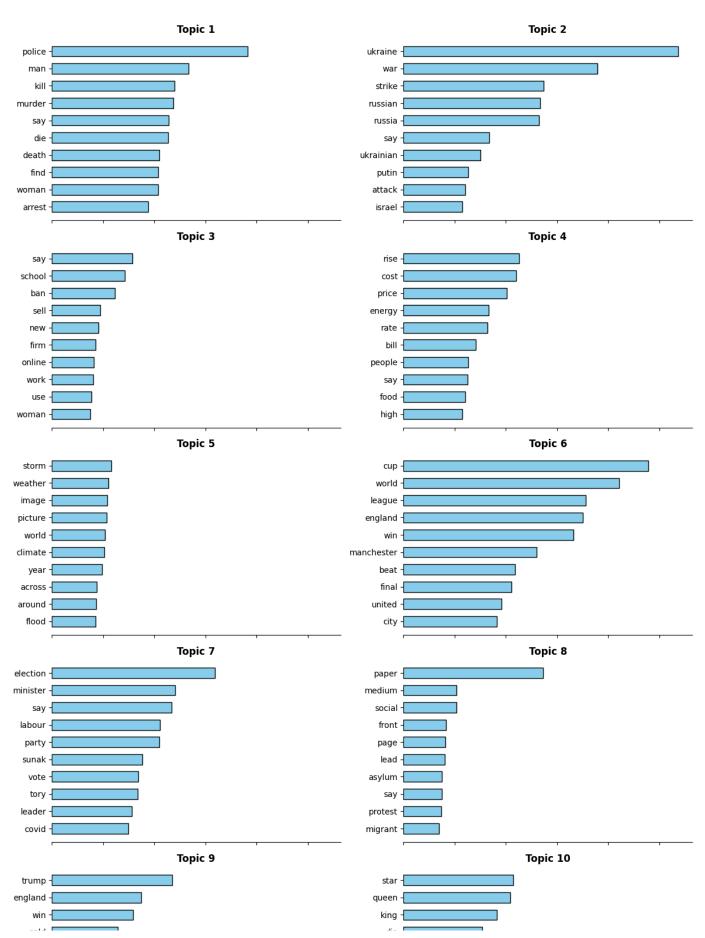
# Hide unused subplots
for i in range(topic_idx + 1, len(axes)):
    fig.delaxes(axes[i])

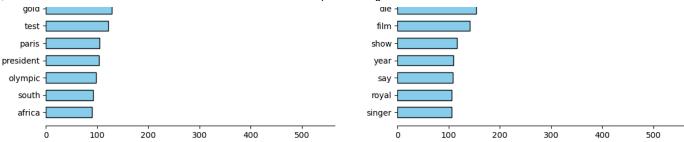
fig.suptitle(title, fontsize=16, weight='bold')
plt.tight_layout(rect=[0, 0.03, 1, 0.95])
plt.show()

# Example usage:
plot_top_words(lda_model, feature_names, no_top_words=10, title="Top 10 Words per LDA Topic")
```



Top 10 Words per LDA Topic





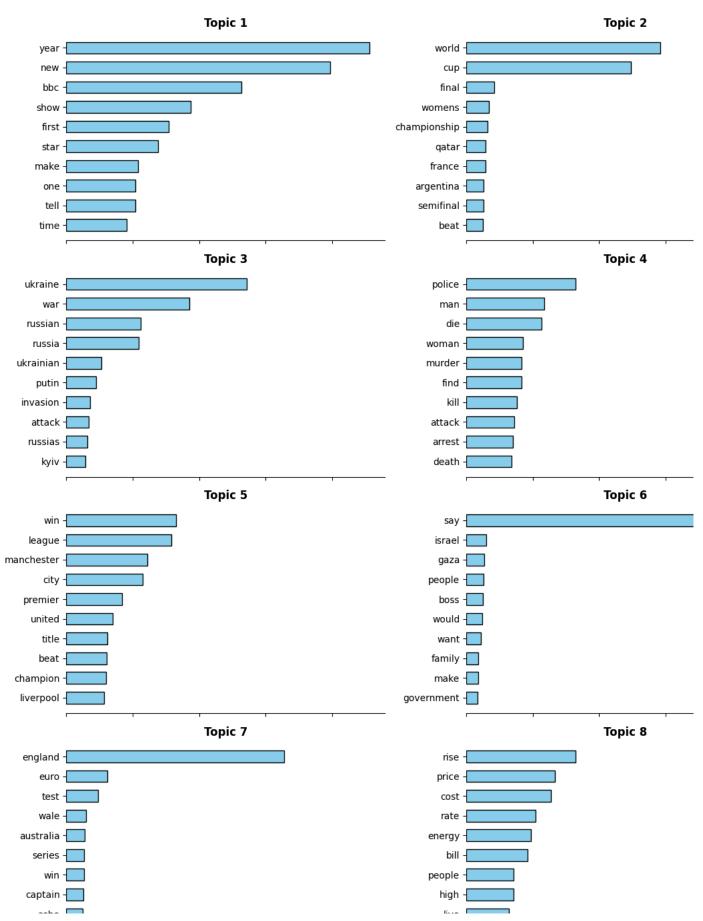
Bonus:

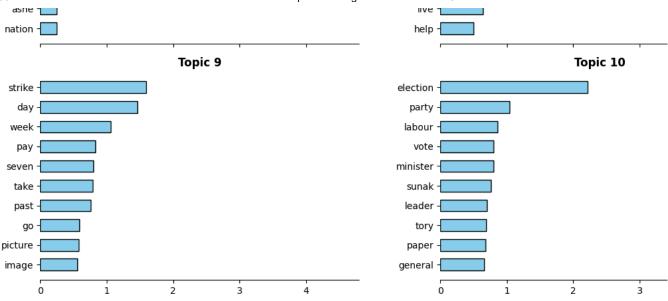
- 1. Compare LDA vs. NMF performance
- 2. Use pyLDAvis or word clouds to visualize topic-word distributions

```
from sklearn.decomposition import NMF
# Initialize NMF model
# You can adjust n_components (number of topics) as needed, using the same number as LDA for comparison
nmf_model = NMF(n_components=lda_model.n_components, random_state=42, init='nndsvda', max_iter=200)
# Fit NMF model to the TF-IDF matrix
nmf_matrix = nmf_model.fit_transform(tfidf_matrix)
print("NMF matrix shape:", nmf_matrix.shape)
# Display the top 10 words for each NMF topic
print("\nTop 10 words per NMF Topic:")
display_topics(nmf_model, feature_names, no_top_words)
→ NMF matrix shape: (42115, 10)
     Top 10 words per NMF Topic:
     Topic 1:
     year new bbc show first star make one tell time
     Topic 2:
     world cup final womens championship gatar france argentina semifinal beat
     Topic 3:
     ukraine war russian russia ukrainian putin invasion attack russias kyiv
     Topic 4:
     police man die woman murder find kill attack arrest death
     Topic 5:
     win league manchester city premier united title beat champion liverpool
     Topic 6:
     say israel gaza people boss would want family make government
     Topic 7:
     england euro test wale australia series win captain ashe nation
     Topic 8:
     rise price cost rate energy bill people high live help
     Topic 9:
     strike day week pay seven take past go picture image
     Topic 10:
     election party labour vote minister sunak leader tory paper general
# Plot the top 10 words for each NMF topic
plot_top_words(nmf_model, feature_names, no_top_words, 'Top 10 words per NMF Topic')
```



Top 10 words per NMF Topic





```
print("Shape of TF-IDF matrix:", tfidf_matrix.shape)
print("Shape of LDA matrix:", lda_matrix.shape)
print("Shape of NMF matrix:", nmf_matrix.shape)
     Shape of TF-IDF matrix: (42115, 1000)
     Shape of LDA matrix: (42115, 10)
     Shape of NMF matrix: (42115, 10)
from wordcloud import WordCloud
import matplotlib.pyplot as plt
    generate_wordclouds(model, feature_names, num_topics, no_top_words=20):
    Generates word clouds for each topic.
    Parameters:
    - model: Fitted topic model (e.g., LDA, NMF)
    - feature_names: List of feature names (e.g., vocabulary)
    - num_topics: Number of topics in the model
    - no_top_words: Number of top words to consider for the word cloud
    for topic_idx, topic in enumerate(model.components_):
        # Get top words and their weights
        top_features_ind = topic.argsort()[:-no_top_words - 1:-1]
        top_features = [(feature_names[i], topic[i]) for i in top_features_ind]
        # Create a dictionary of word weights
        word_weights = dict(top_features)
        # Generate word cloud
        wordcloud = WordCloud(width=800, height=400, background_color='white').generate_from_frequencies(word_weights)
        # Display the word cloud
        plt.figure(figsize=(10, 5))
        plt.imshow(wordcloud, interpolation='bilinear')
        plt.axis("off")
        plt.title(f"Topic {topic_idx + 1} Word Cloud")
        plt.show()
# Generate word clouds for LDA topics
generate_wordclouds(lda_model, feature_names, lda_model.n_components)
```

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Topic 2 Word Cloud

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Topic 4 Word Cloud



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Topic 5 Word Cloud



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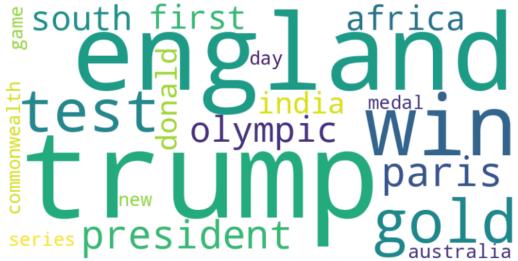
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Topic 9 Word Cloud



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