"Topic-driven Event Paragraph Extraction from News Articles"

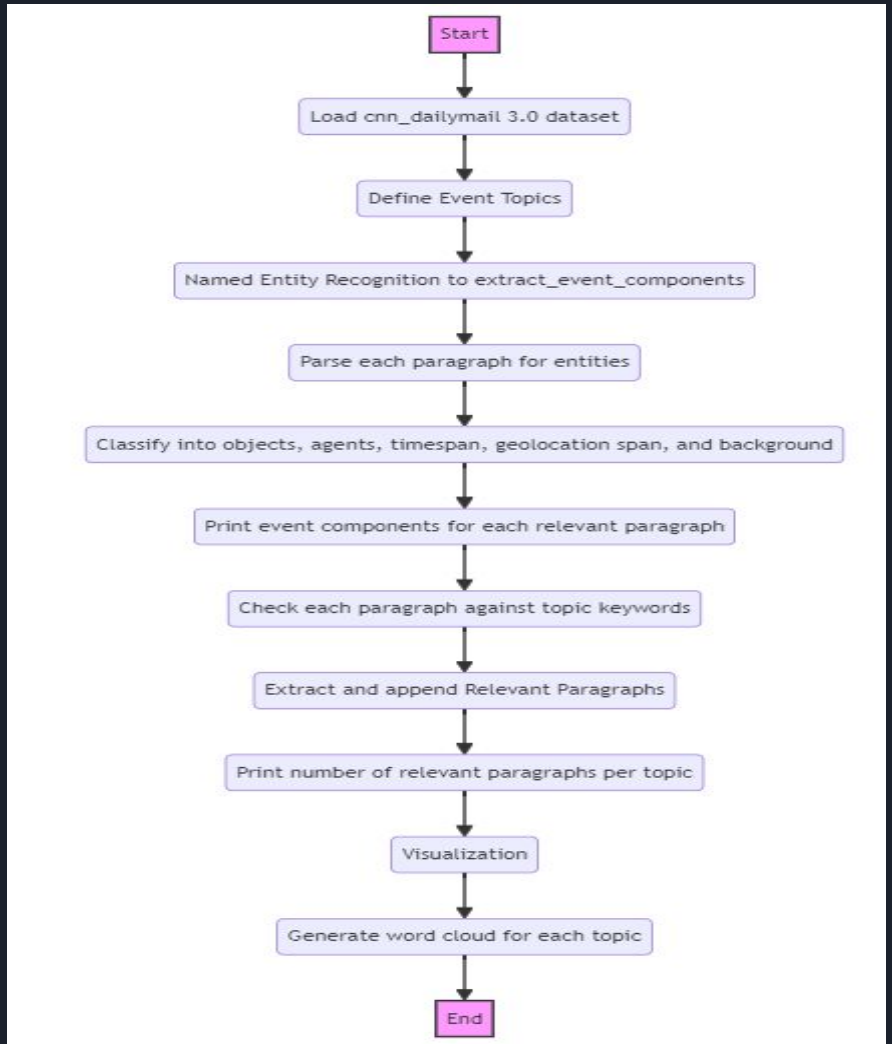
This subtitle emphasizes the project's focus on extracting event-related paragraphs from news articles categorized under various topics such as Politics, Crime, Sports, Travel, and Health. It highlights the goal of gaining insights into different types of events reported in the news.

METHODOLOGY

This project uses advanced NLP technologies to Enable automated extraction and classification of news article content based on predefined event topics.

Insight Generation: Provide structured insights into news content through entity extraction and event component classification.

Visual Representation: Enhance understanding through visual representations like word clouds, highlighting prevalent themes and topics within each event category.

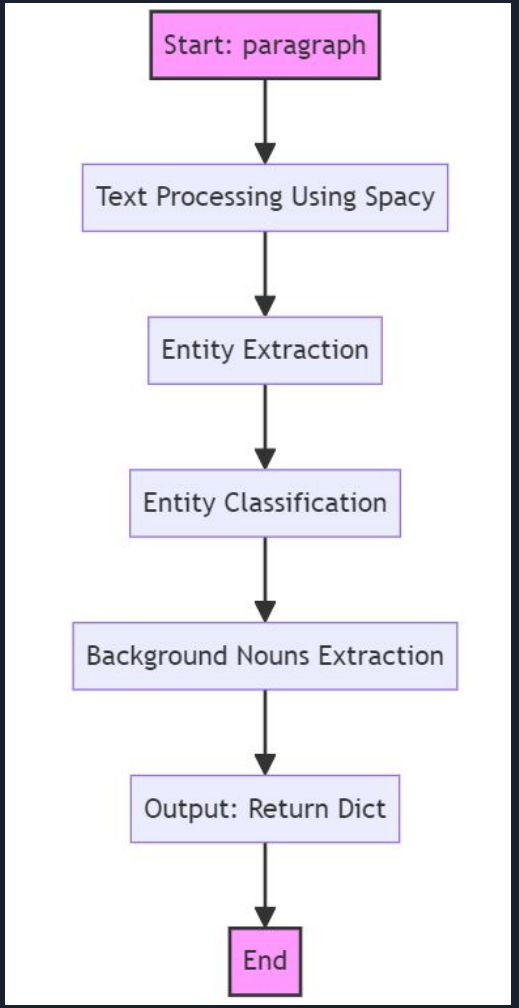


WHY NER ?

Definition: NER identifies and categorizes named entities (such as persons, organizations, dates) in text.

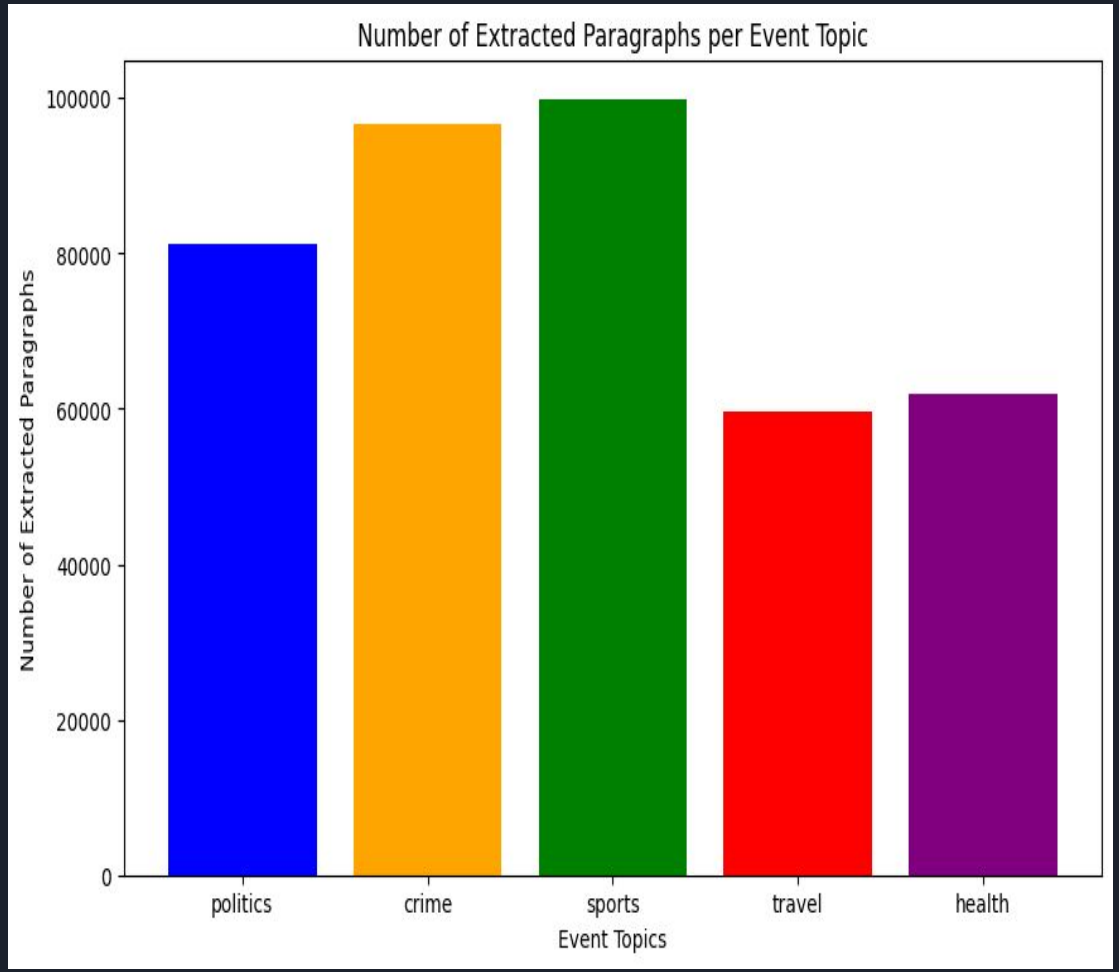
Importance: Provides structured data for deeper analysis and understanding of text content.

Applied NER techniques using SpaCy to extract entities such as objects, agents (persons or organizations), timespan (dates), geolocation span (places), and background (contextual nouns) from each news article paragraph.

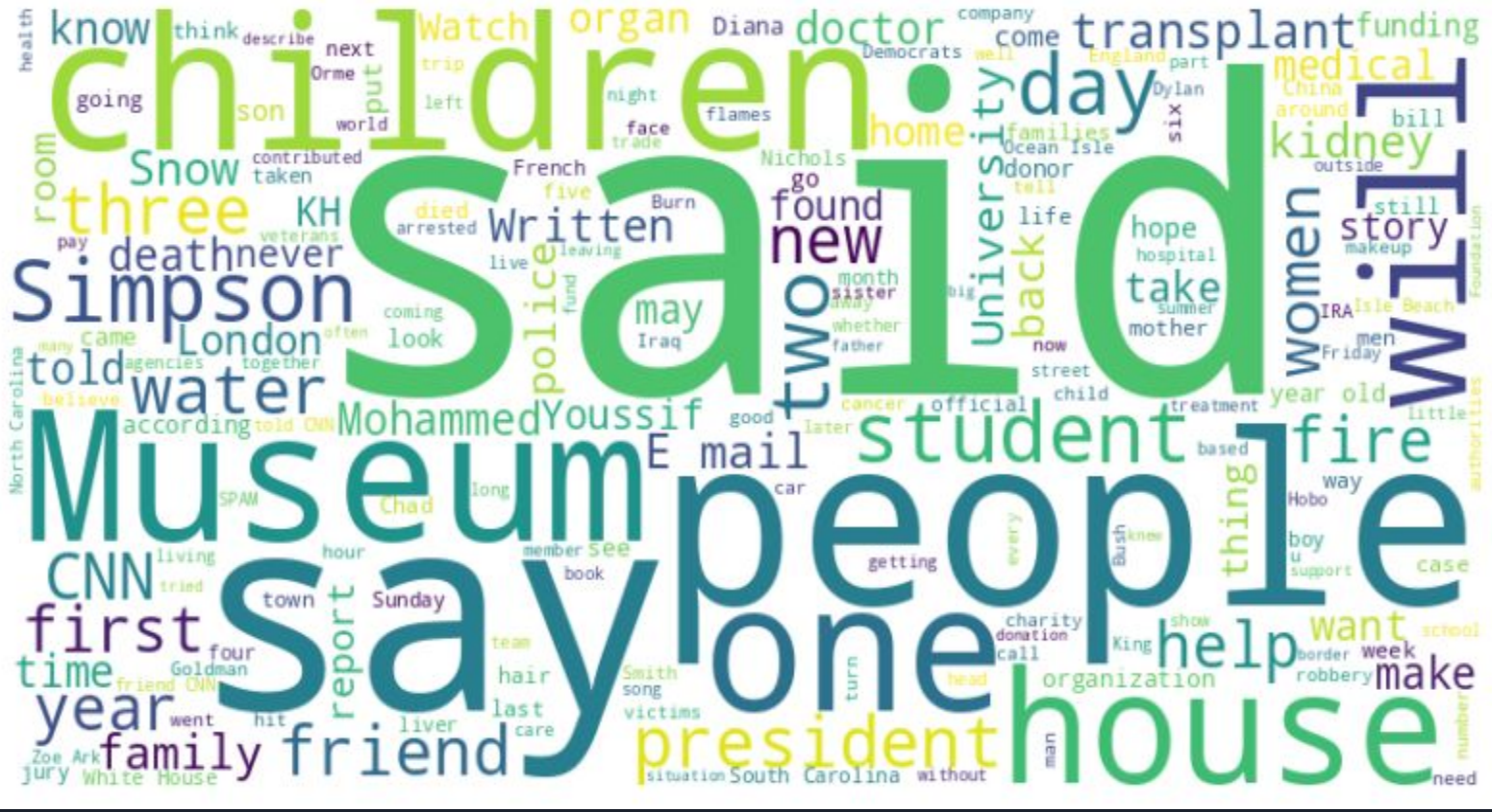


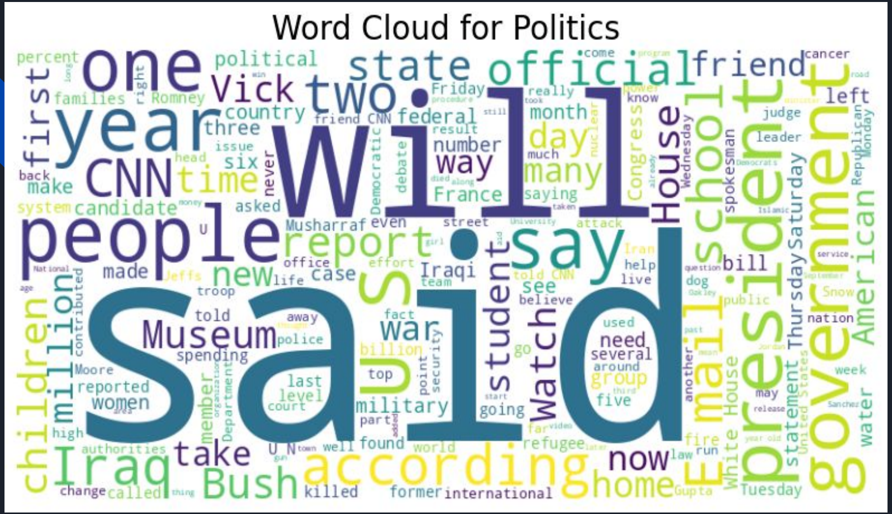
RESULTS

1. Extracted 81230 paragraphs related to politics
2. Extracted 96682 paragraphs related to crime
3. Extracted 99907 paragraphs related to sports
4. Extracted 59652 paragraphs related to travel
5. Extracted 61993 paragraphs related to health



Word Cloud for Travel




Word Cloud for Politics
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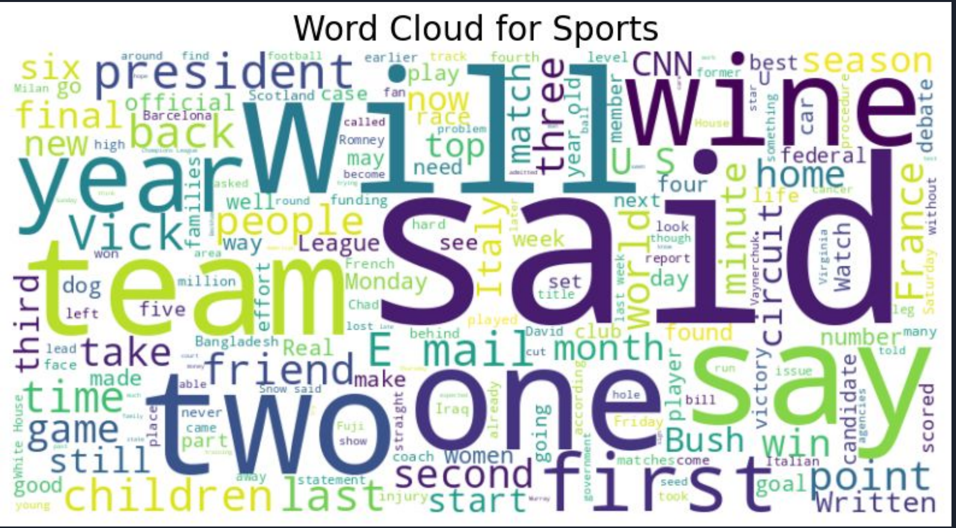
people
one
year
official
state
two
president
government
school
E mail
according
Iraq
CNN
say
U S
Museum
report


Word Cloud for Sports
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year
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Vick
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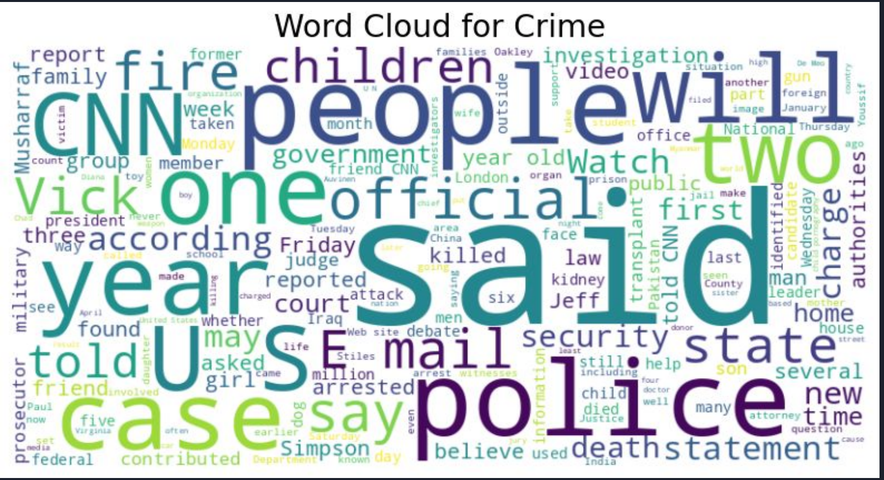
E mail
friend
children
last
second
point


Word Cloud for Crime
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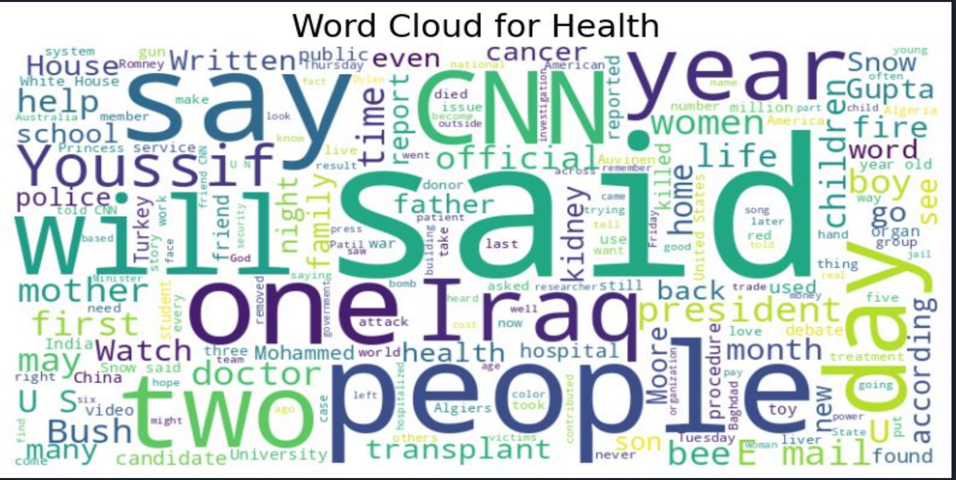
children
fire
E mail
state
say
according
told
Vick


Word Cloud for Health
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CNN
year
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two
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Iraq
day
Youssif
official
doctor
president
transplant
E mail
health