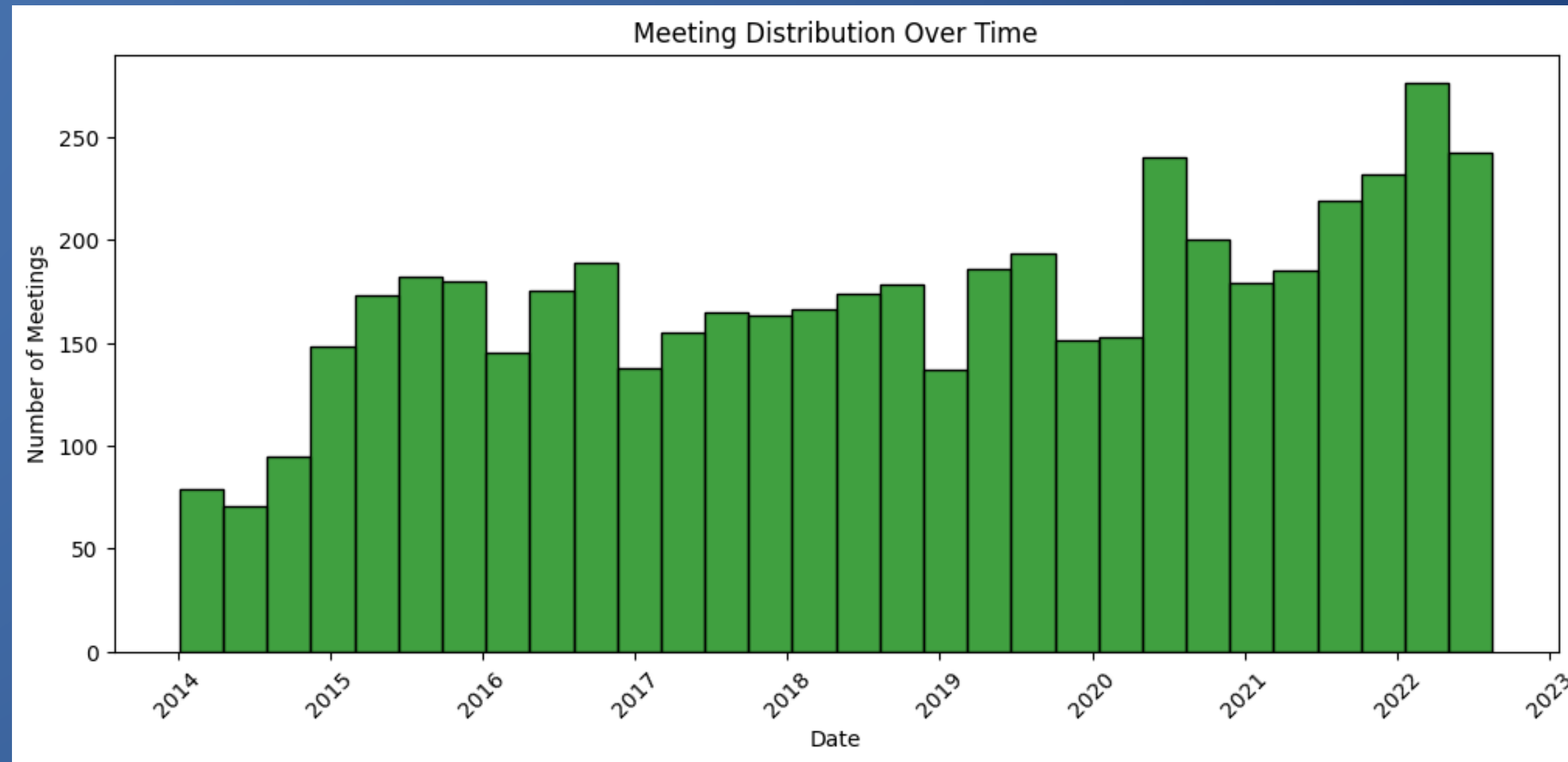


# MINUTES MEETING SUMMARIZATION



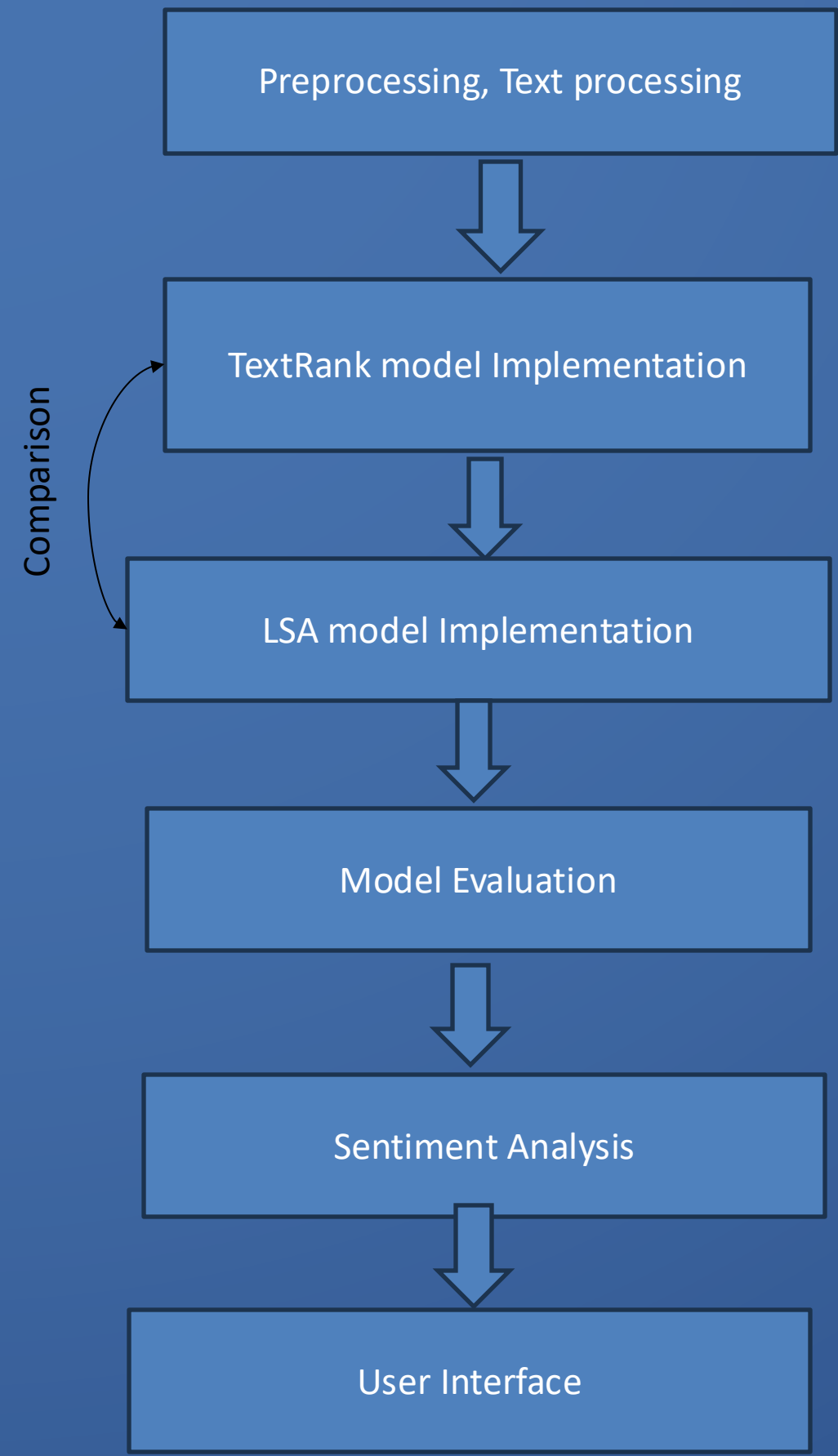
# PROBLEM STATEMENT



As the number of meetings grows, tracking them effectively becomes essential. Our project generates concise summaries in seconds, saving time and effort. It also analyzes sentiment—positive, negative, or neutral—to provide deeper insights.


By understanding the meeting's tone, you can prioritize attention and engagement.

# WORKFLOW



# DATASET

## Kaggle - Meeting Transcripts

Detail	Compact	Column	6 of 6 columns			
id	Item_UID	Meeting_UID	Transcript	Summary	Date	
862 unique values	862 unique values	559 unique values	862 unique values	860 unique values	 2014-01-06 2022-08-09	
LongBeachCC_01072014_14-0024	14-0024	LongBeachCC_01072014	Speaker 2: And 14 is communication from the Office of the Council Member. I lost the recommendation ...	Recommendation to direct City Clerk to place an advisory question on the April 8, 2014 citywide elec...	2014-01-07	
DenverCityCouncil_01132014_13-0950	13-0950	DenverCityCouncil_01132014	Speaker 1: 12 eyes. 12 eyes. The bill is has passed. Now we come to our last public hearing. And Cou...	Adopts the 61st and Pena Station Area Plan as a supplement to the Comprehensive Plan. (LAND USE, TRA...	2014-01-13	
LongBeachCC_02042014_14-0092	14-0092	LongBeachCC_02042014	Speaker 4: There are conditions on this one. This is recommendation to receive an f, receive the app...	Recommendation to receive the application of Abdul Jamal Sheriff, dba Come N Go Market, for an origi...	2014-02-04	
LongBeachCC_02112014_14-0110	14-0110	LongBeachCC_02112014	Speaker 5: Thank you. We'll go to item six. Quick read. Speaker 6: Item six is a report from the off...	Recommendation to request City Manager to direct Airport Director to provide a report on how the Cit...	2014-02-11	



# **DATASET**

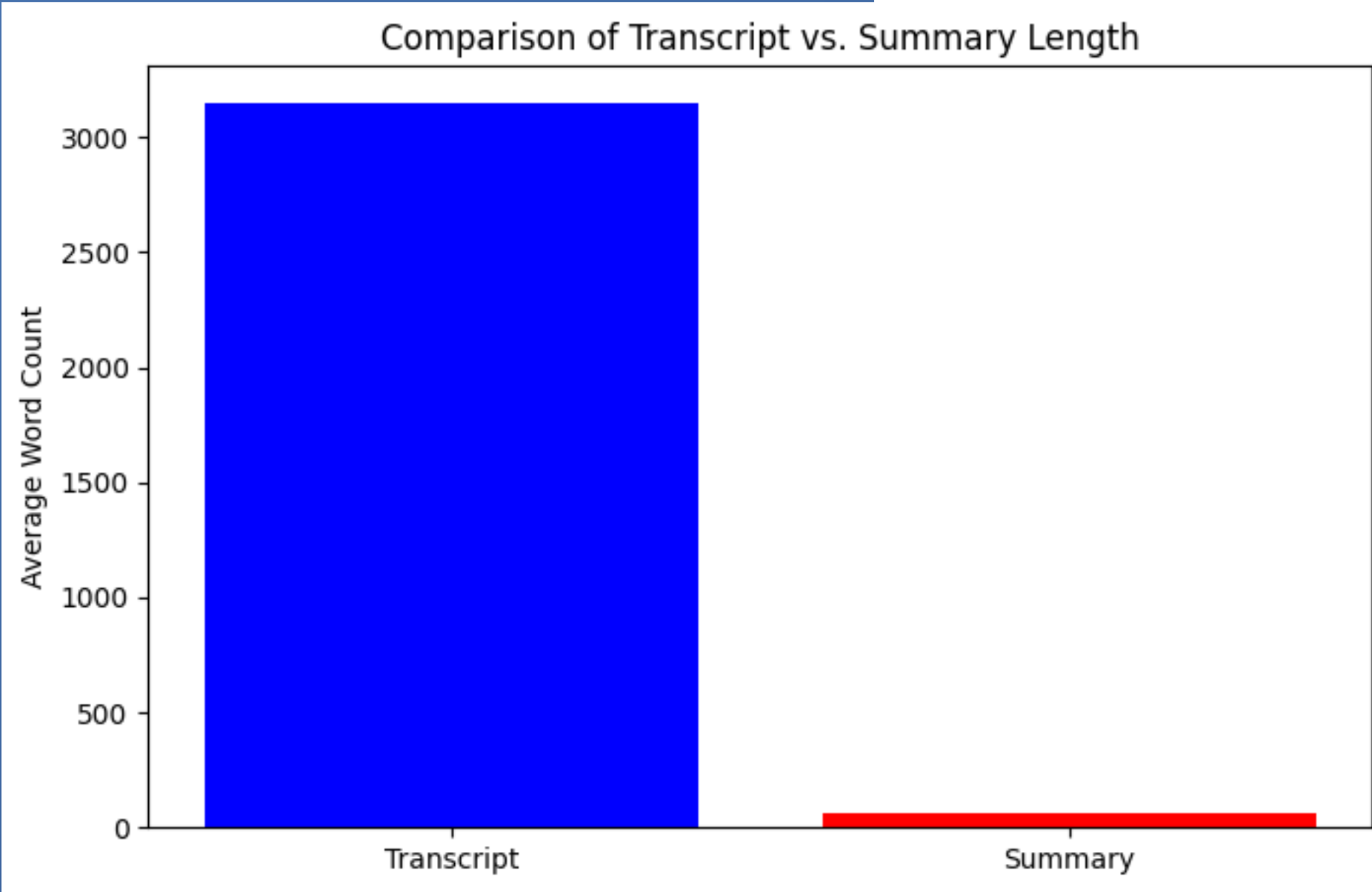
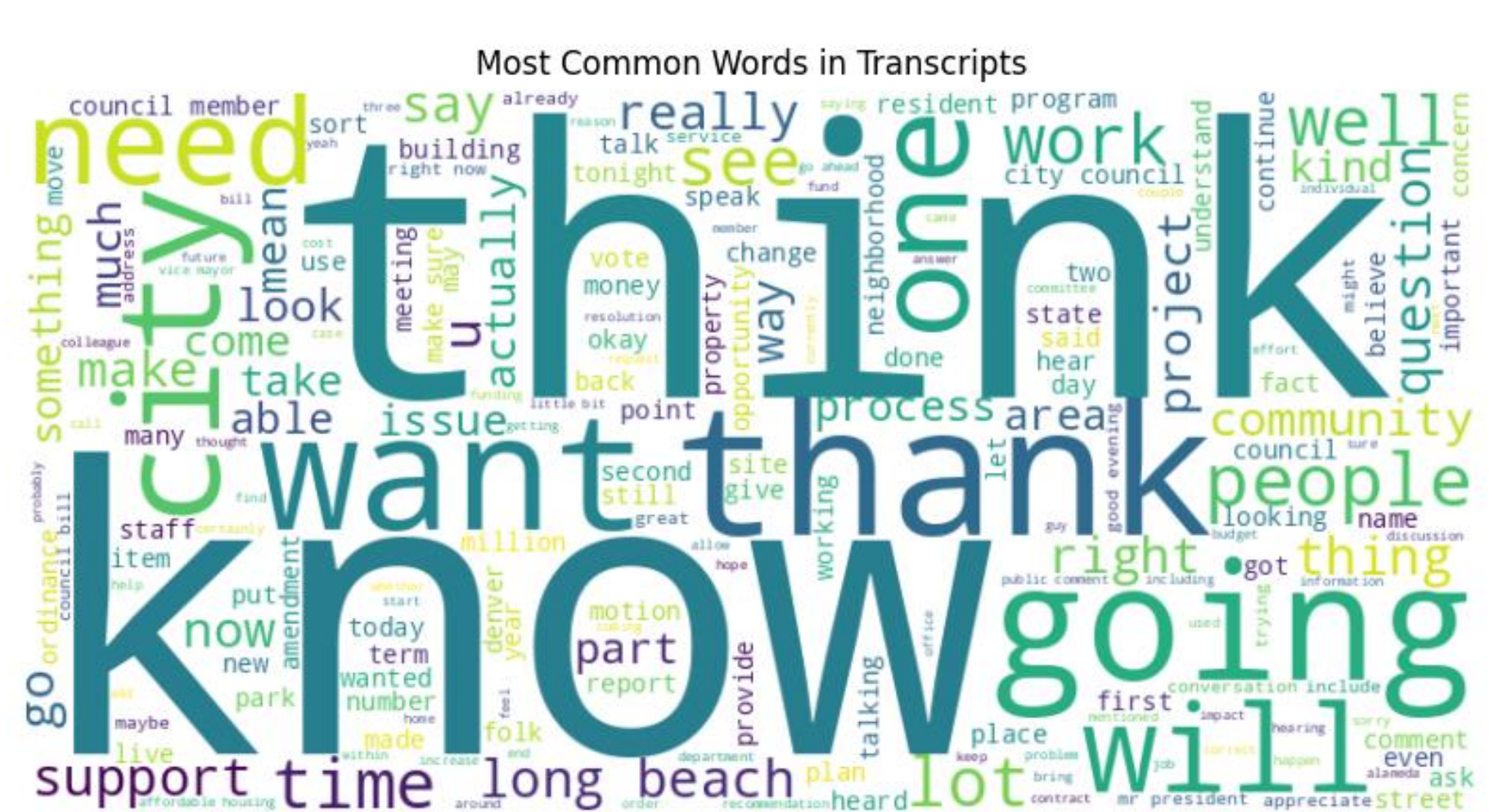
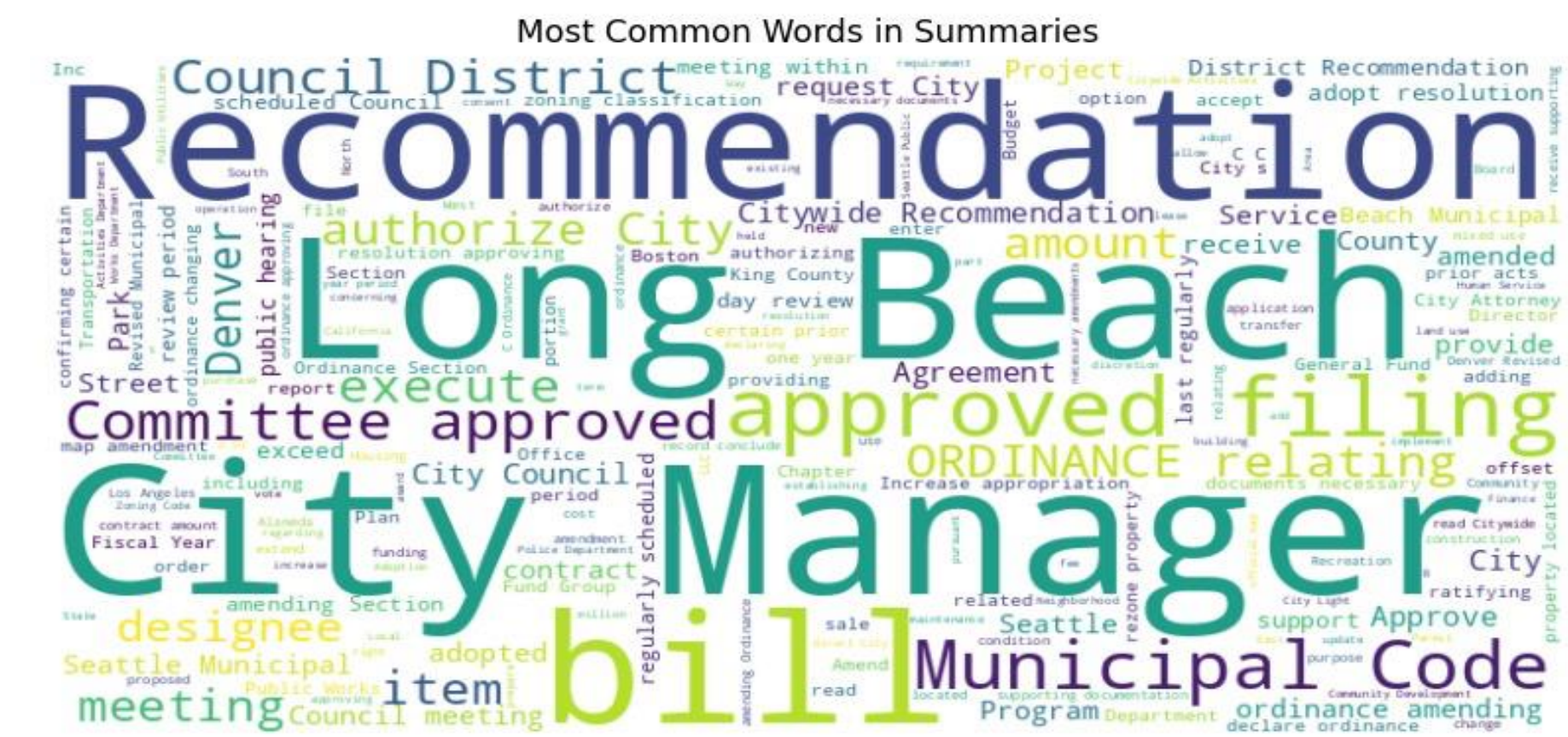
## **Kaggle - Meeting Transcripts**

# **DATASET**

## **Kaggle - Meeting Transcripts**

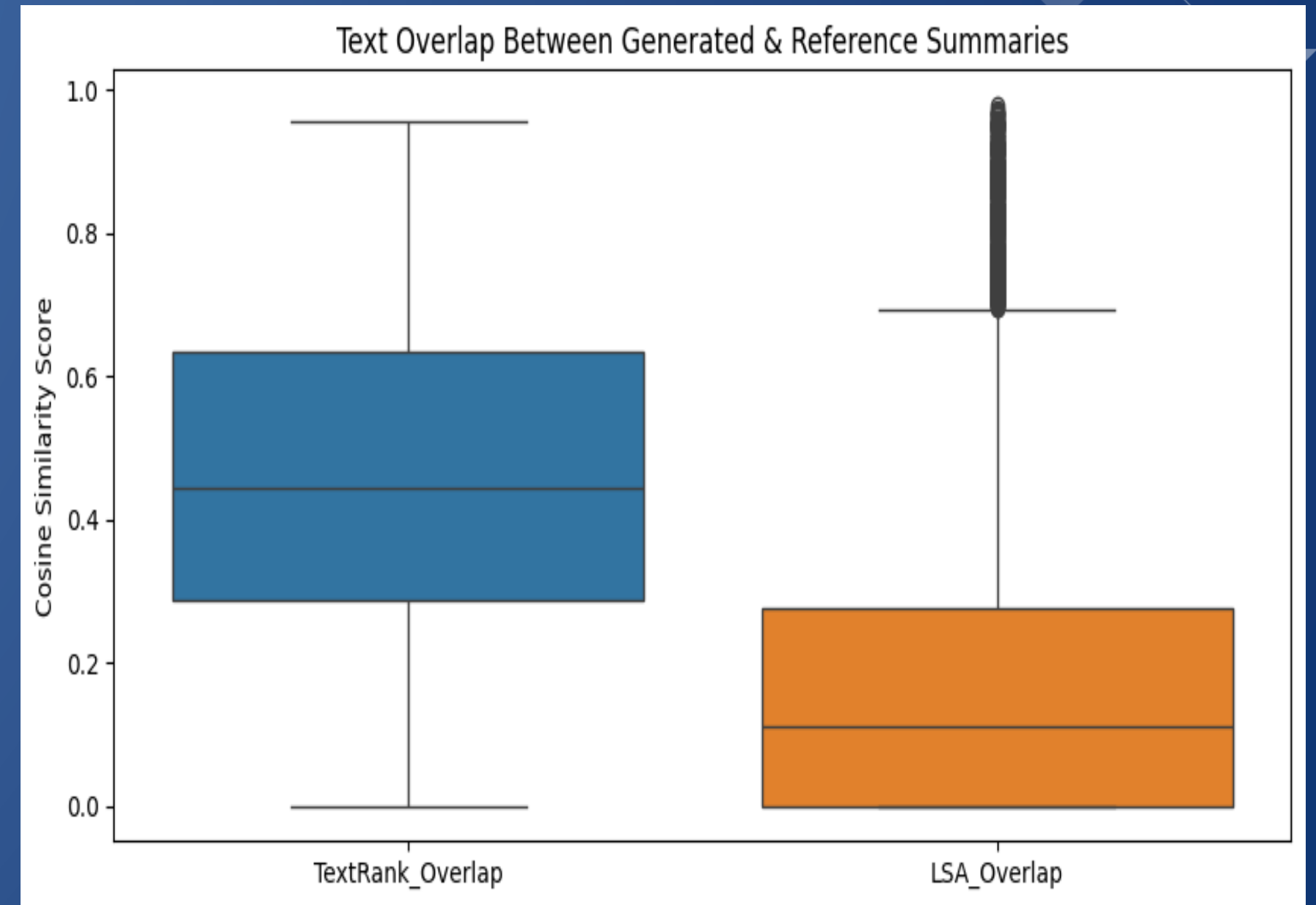
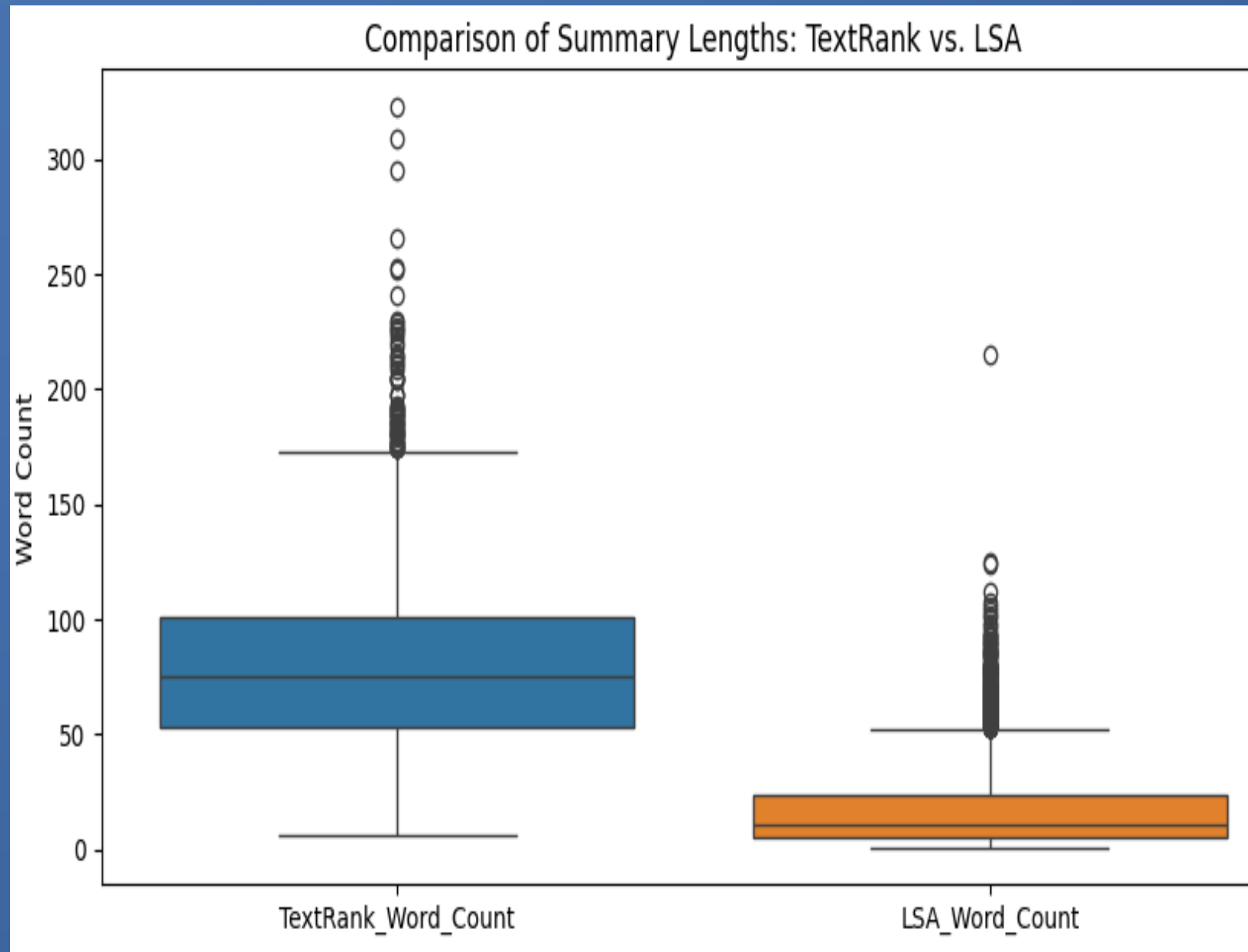
A bar chart titled "Comparison of Transcript vs. Summary Length" comparing the average word count of transcripts and summaries. The y-axis is labeled "Average Word Count" and ranges from 0 to 3000 in increments of 500. The x-axis has two categories: "Transcript" and "Summary". The "Transcript" bar is blue and reaches approximately 3150 on the y-axis. The "Summary" bar is red and reaches approximately 50 on the y-axis.

Category	Average Word Count
Transcript	~3150
Summary	~50

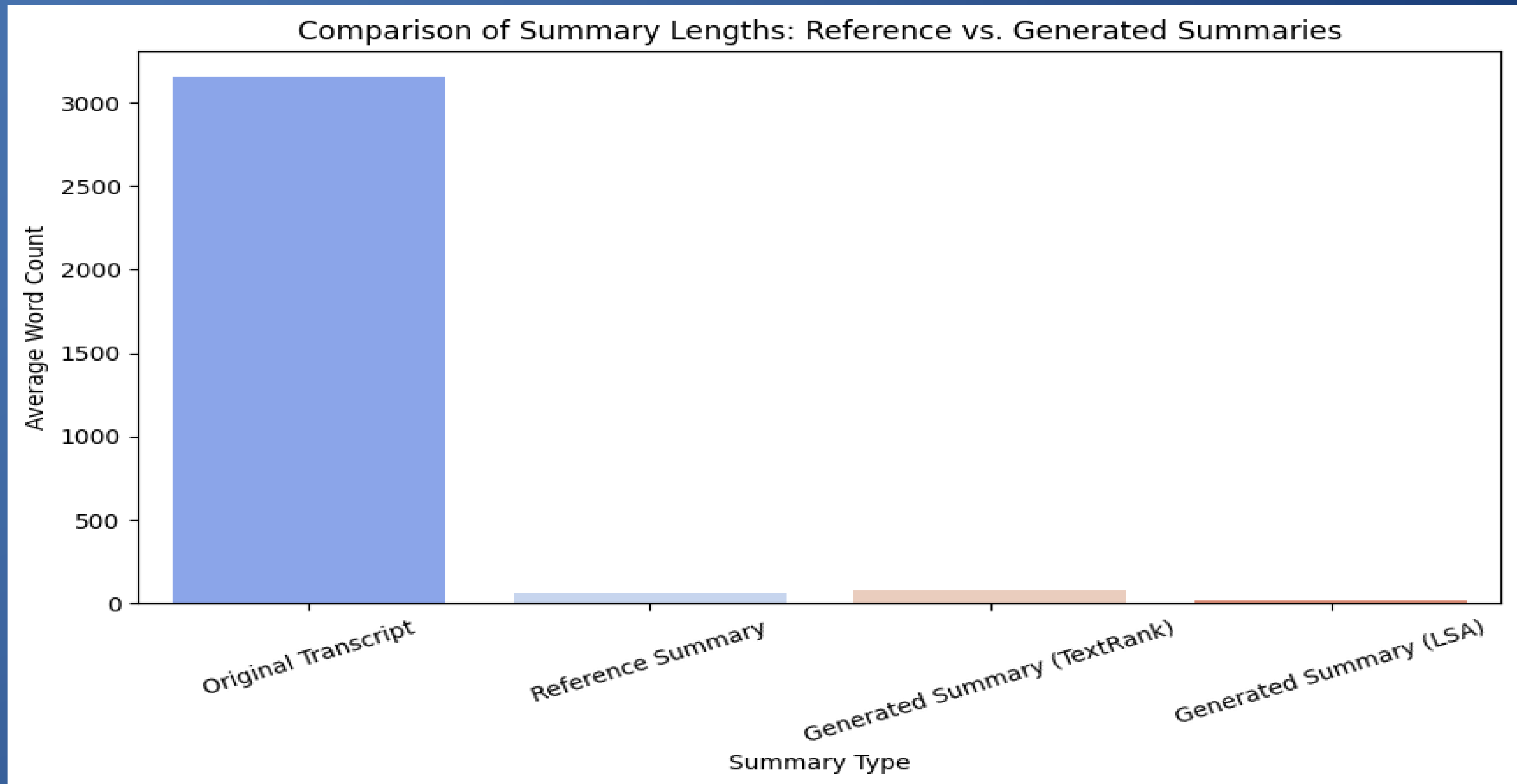
[illegible][illegible]



# Text\_Rank Vs LSA

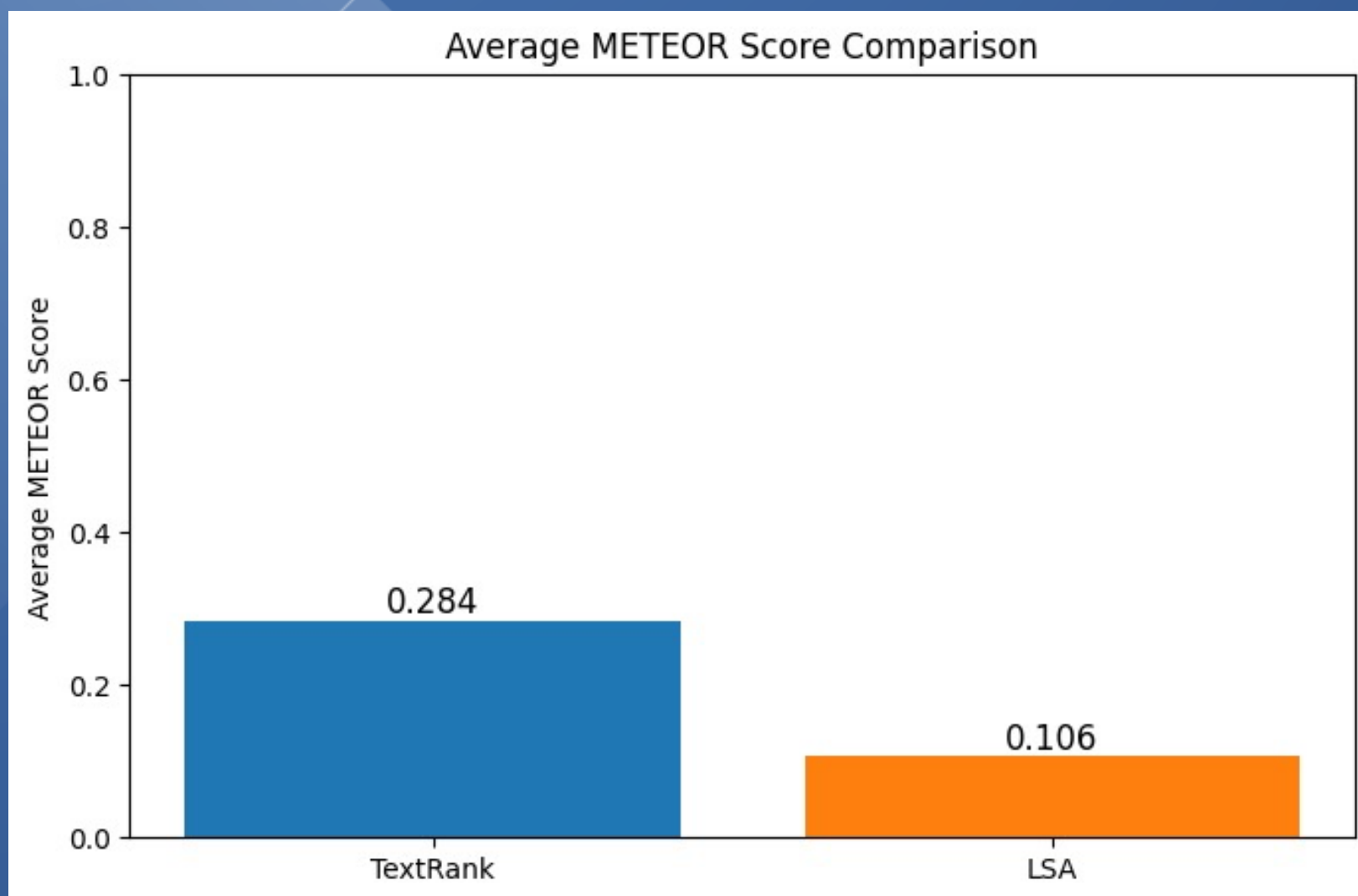


# Comparison of Summary lengths



# EVALUATION METRICS-METEOR

	ROUGE_TextRank	ROUGE_LSA	METEOR_TextRank	METEOR_LSA
0	{'rouge1': (0.5869565217391305, 0.692307692307...}	{'rouge1': (0.8421052631578947, 0.615384615384...}	0.531104	0.525083
1	{'rouge1': (0.12935323383084577, 0.53061224489...}	{'rouge1': (0.25, 0.02040816326530612, 0.03773...}	0.272980	0.029412
2	{'rouge1': (0.22448979591836735, 0.18333333333...}	{'rouge1': (0.25, 0.05, 0.083333333333333334), ...}	0.100000	0.031104
3	{'rouge1': (0.1951219512195122, 0.516129032258...}	{'rouge1': (0.22222222222222222, 0.064516129032...}	0.349376	0.050336
4	{'rouge1': (0.12195121951219512, 0.2, 0.151515...}	{'rouge1': (0.0, 0.0, 0.0), 'rouge2': (0.0, 0....}	0.132419	0.018657



METEOR is a **text evaluation metric** used to measure the similarity between a **generated summary**

- **Precision & Recall Calculation**

1. Precision: Percentage of correct words in the generated summary.
2. Recall: Percentage of reference words covered in the generated summary.

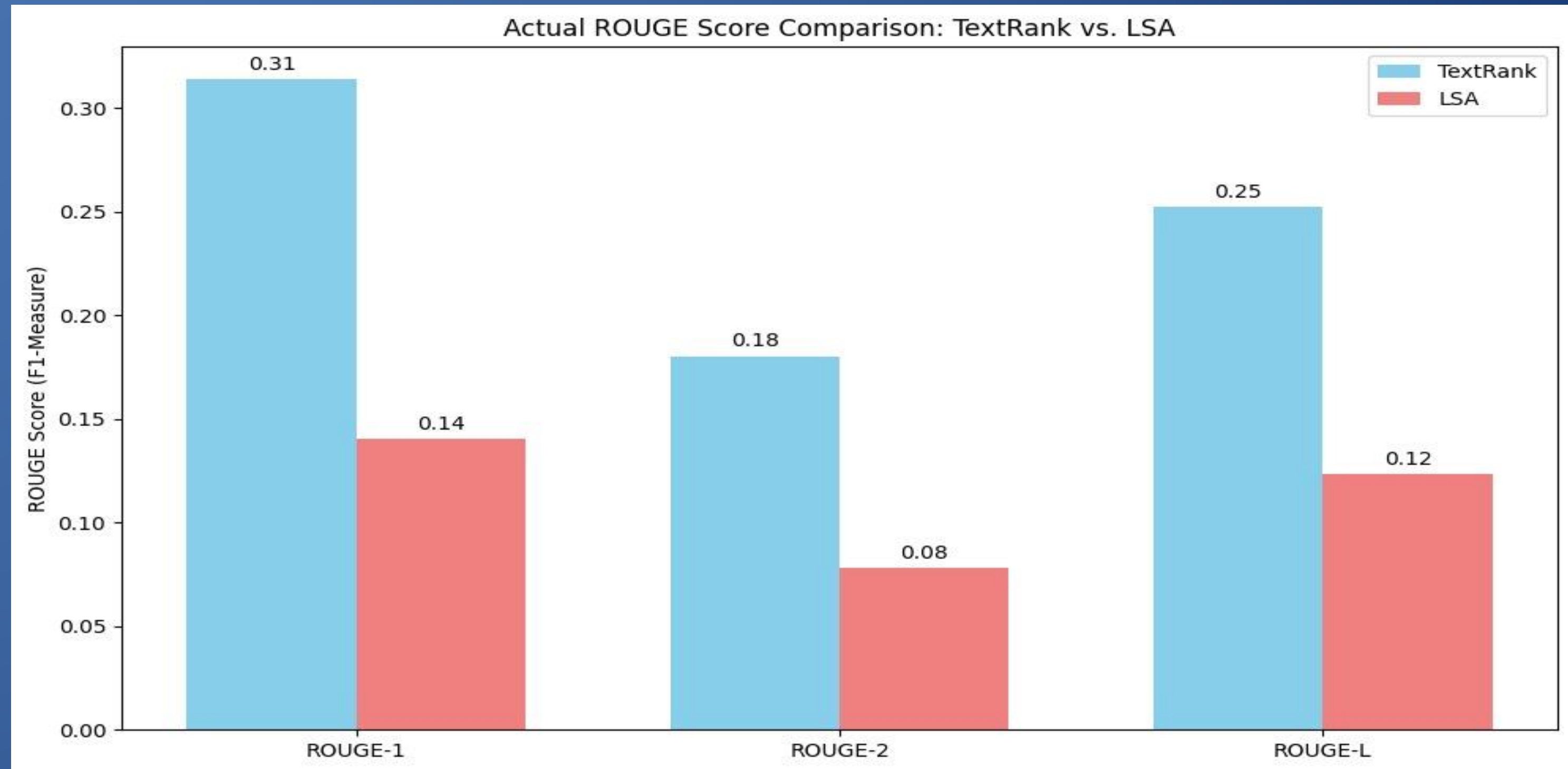
- **2. Penalty for Word Order**

1. If the word order differs significantly from the reference, METEOR applies a penalty.

- **Final Score Computation**

1. The METEOR score is calculated as a weighted combination of **precision, recall, and order penalties**, providing a more **human-like** evaluation.

# EVALUATION METRICS-ROUGE






# USER INTERFACE

## AI-Powered Meeting Minutes Generator

Paste a transcript to generate a summary.

◆ Meeting Summarizer

 Meeting Insights

Textbox

Paste your meeting transcript here...

Summary Type

☐

Concise

☐

Detailed

THANK YOU

