

# Generating Answers

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# TABLE OF CONTENT

- Introduction
- Design
- Implementation
- Test
- Conclusion
- Github repository Link:
- Bibliography / References

# INTRODUCTION

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- This initiative is centered on producing responses to queries within a predefined context, demonstrating the combined use of the Cohere API for generating embeddings and the Annoy library for effective nearest neighbor searches. The main objective is to develop a system adept at comprehending and addressing questions relevant to a particular field.

# DESIGN

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Input text : whole information as Text or you can pass PDF using Langchain



Chunking : split the data into parts



Embedding: generate the Vector Space



Search Index: Search using index



Query: Pass the query or question from that text



Search: it searches using semantic search with Dense retrieval

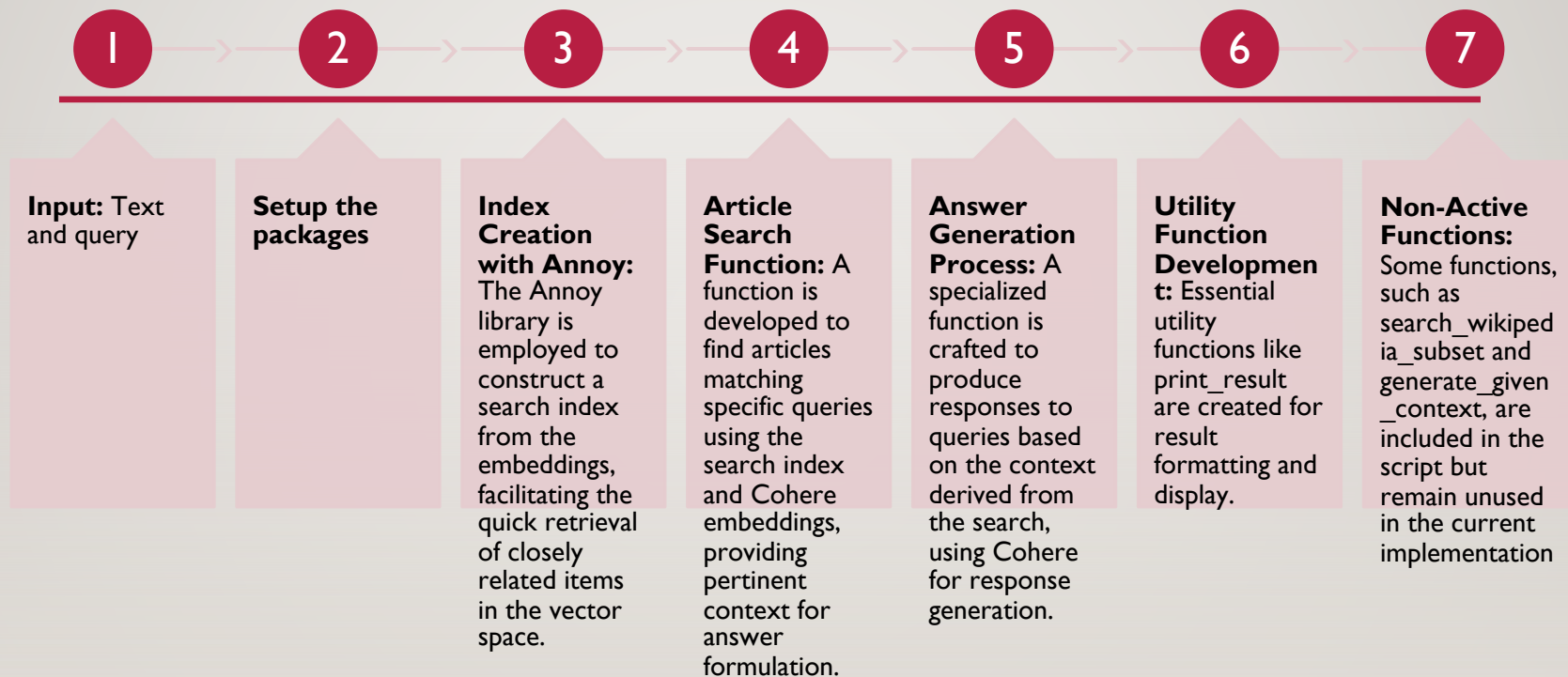


Question: follow up Question or new question



Answers: Result

# IMPLEMENTATION



# TEST

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```
[19] results = ask_andrews_article(  
    "What is the most viewed televised event?",  
    num_generations=5  
)
```

```
▶ for gen in results:  
    print(gen)  
    print('--')
```

```
☞ The Super Bowl is typically the most viewed televised event of the year in the United States. However, it is not mentioned in the excerpt from the article you provided.  
  
Would you like help with anything else regarding this article?  
--  
The Super Bowl is reportedly the most viewed televised event in the United States, with audiences commonly measuring in at around 100 million viewers per year. Given the promi  
  
Would you like me to search for other commonly viewed televised events?  
--  
The Super Bowl is typically the most viewed televised event in the United States. In 2017, the Big Game drew in 111.3 million viewers, which was a slight increase from the pri  
--  
The Super Bowl is typically the most viewed televised event in the United States. Traditionally the event has upwards of 100 million viewers every year.  
  
Would you like to know more about the Super Bowl?  
--  
The Super Bowl is reportedly the most viewed televised event in the United States, with audiences commonly measuring in at over 100 million viewers across the country. Given t  
--
```



# CONCLUSION


- The "Generating Answers" initiative highlights a dynamic integration of the Cohere API and the Annoy library, presenting an efficient method for interpreting and answering queries in natural language. The project skillfully combines data processing, the creation of embeddings, and the development of a search index, illustrating a comprehensive method for improving semantic comprehension. This integration of technologies enables the system to effectively produce articulate responses rooted in contextual insights, showcasing a solid foundation for constructing advanced question-answering systems.

# REFERENCES

- [https://hc.labnet.sfbu.edu/~henry/sfbu/course/deeplearning\\_ai/llm\\_semantic\\_search/slides/exercise\\_llm\\_semantic\\_search.html](https://hc.labnet.sfbu.edu/~henry/sfbu/course/deeplearning_ai/llm_semantic_search/slides/exercise_llm_semantic_search.html)
- <https://learn.deeplearning.ai/large-language-models-semantic-search/lesson/6/generating-answers>



GITHUB:



[https://github.com/Maryam-Zubair/MachineLearning\\_Assignment/tree/main/ChatGPT/Generating%20Answer](https://github.com/Maryam-Zubair/MachineLearning_Assignment/tree/main/ChatGPT/Generating%20Answer)