## Rerank by dense retrieval model



Retrieve using search engine



Data adjustment and filtering by Human



Data generation by ChatGPT



Top1 Chunk

Top2 Chunk

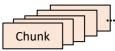


Top30 Chunk



**Dense retrieval model** 

Who was awarded the 2022 Nobel Prize for Physiology and Medicine?",



{"link": "https://www.nobelprize.org/prizes/medicine/", "title": "The Nobel Prize in Physiology or Medicine 2022", "snippet": "The Nobel Assembly..."}, ...



Google Search API

Query: Who was awarded the 2022 Nobel Prize for Physiology and Medicine?",

"Question": "Who was awarded the 2022 Nobel Prize for Physiology and Medicine?", "Answer": ['Svante Pääbo','Svante Paabo']

Related event: 2022 Nobel Prize for Physiology and Medicine Question: Who was awarded the 2022 Nobel Prize for Physiology and Medicine?

Key information: Svante Pääbo and Svante Paabo



gpt-3.5-turbo api

We simulate the process of a user querying and obtaining information. Suppose the user retrieves a current event news, speculate the event that the user is concerned about and the question that he/she may want to know, and generate the key information corresponding to the answer to the question. ...

News: The 2022 Nobel Prize for Physiology and Medicine was ...

**News Collection** 

The 2022 Nobel Prize for Physiology and Medicine was awarded on Monday to Swedish scientist Svante Pääbo for sequencing the genome of the Neanderthal.