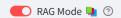
## **Chat Mode**



## **Upload Data**

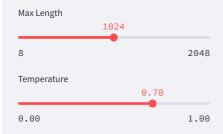
Upload your data files:

Drag and drop files here
Limit 200MB per file • TXT, PDF, DOCX

Browse files



## **Parameters**



## **Actions**

New Chat Clear History

Response Time (RAG): 54.09 seconds

CPU Usage (RAG): 18.60%

Memory Usage (RAG): -0.30%



🚀 A chatbot powered by LlamaIndex and Ollama 🦙



- (percentage of space used in each node) to maximize performance? a) 50% b) 67% c) 75% d) 100%
- There isn't a single "optimal" fill factor that works best for all B+ tree implementations. The ideal fill factor depends on several factors, including:
  - Data size: Smaller data items allow for higher fill factors as there's less overhead per entry.
  - Disk block size: The fill factor should be chosen to minimize the number of disk I/O operations
  - Hardware characteristics: Faster disk access speeds can tolerate slightly lower fill factors.

However, common practices suggest that fill factors between 60% and 70% often provide a good balance:

- **Higher fill factors (closer to 100%):** Can lead to more frequent node splits, increasing the tree's height and potentially slowing down search operations.
- Lower fill factors (below 50%): Result in excessive wasted space and can increase the number of nodes traversed during searches.

Therefore, the best answer among the choices is (b) 67%.

Let me know if you have any more questions about B+ trees or database indexing!

Ask a question: