

Chat Mode

RAG Mode

Upload Data

Upload your data files:

Drag and drop files here

Limit 200MB per file • TXT, PDF, DOCX

Browse files

History_of_computer_an...
327.5KB

Parameters

Max Length

1024

82048

Temperature

0.70

0.001.00

Actions

New Chat

Clear History

Response Time (RAG): 46.65 seconds

CPU Usage (RAG): 17.70%

Memory Usage (RAG): -0.30%

Local Chatbot

A chatbot powered by LlamaIndex and Ollama

Hello, I'm your assistant, how can I help you?

8. Given a distributed system using the Paxos consensus algorithm, what is the minimum number of nodes that must be operational to achieve consensus in a system with N nodes?
a) N/2 b) N/2 + 1 c) 2N/3 d) N - 1

The answer is (b) $N/2 + 1$.

Here's why:

- Paxos Consensus:** Paxos is a distributed consensus algorithm used to ensure that all nodes in a system agree on the same value.
- Quorum Requirement:** To achieve consensus, Paxos requires a quorum of nodes. A quorum is a supermajority of nodes – more than half.
- Minimum Operational Nodes:** In a system with N nodes, the minimum number of operational nodes required to form a quorum is $(N/2) + 1$. This ensures that there's always a majority of nodes available to reach agreement even if some nodes fail.

Let me know if you have any other questions about Paxos or distributed systems!

Ask a question:

