

Telegram RAG pdf - n8n

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Chat with Database

1. Retrieve the incoming chat message.
2. Retrieve relevant chunks from the vector store.
3. Pass these chunks to the model.
The model will use the retrieved information to formulate a precise response.

```
graph LR; Trigger[Telegram Trigger: Update message] --> Check[Check if is a document]; Check --> QAChain[Question and Answer Chain]; QAChain --> Send[Send a text message: sendMessage: message]; Send --> Trigger; QAChain --> Model((Model: OpenAI Chat Model)); QAChain --> Retriever[Vector Store Retriever]; Retriever --> Store[Pinecone Vector Store]; Store --> Embeddings[Embeddings];
```

Load data into database

Fetch file from Telegram, split it into chunks and insert into Pinecone index, a message from Telegram will be sent just to let the user know that the process finished

```
graph LR; GetFile[Telegram get File: get file] --> Change[Change to application/pdf]; Change --> Store[Pinecone Vector Store]; Store --> Limit[Limit to 1]; Limit --> Response[Telegram Response about Database: sendMessage: message]; Response --> Error[Stop and Error!]; Embeddings[Embeddings: OpenAI] --> Store; Splitter[Recursive Character Text Splitter] --> Embeddings; Loader[Default Data Loader] --> Store;
```

Execute workflow

Logs