# 🤖 Telegram Voice RAG Bot

A voice-enabled Telegram bot that:

* Accepts voice messages
* Transcribes them with **local Whisper**
* Queries **Together AI (Mixtral)** with a .txt knowledge base (RAG-style)
* Replies with both text **and voice** using **ElevenLabs**
* Replies with **text only** for text input

## 🧠 Features

✅ Voice → Whisper → GPT → ElevenLabs  
✅ .txt RAG support  
✅ Telegram integration (Python)  
✅ Simple .env setup  
✅ Fully local Whisper (no OpenAI needed!)

## 🗂 Project structure

📁 telegram-rag-bot  
├── telegram\_rag\_bot.py # main bot logic  
├── knowledge.txt # custom knowledge base for GPT  
├── .env # contains API keys (not uploaded)  
├── README.md  
└── Telegram\_RAG\_Bot\_User\_Guide.pdf

## 💬 How it works

### 🔊 Voice message:

* User sends a voice message
* Bot transcribes with Whisper
* Sends to Together API (Mixtral)
* Replies with text + ElevenLabs voice message

### 💬 Text message:

* User sends a text question
* Bot replies with GPT answer in text only

## 📌 How to interact with the bot

Simply start a chat with the bot and:

**Option 1: Send a voice message**  
🗣️ Example: *(voice)* “How long does the approval take?”

* ✅ Bot transcribes the question
* ✅ Responds with text and voice

**Option 2: Send a text message**  
⌨️ Example: “What documents do I need to apply for a loan?”

* ✅ Bot replies with a quick text answer

### 🧪 Suggested example questions:

* “How can I check my past transactions?”
* “What documents are required for verification?”
* “Where do I upload my ID?”
* “How fast is the loan approval process?”
* “What happens if I miss a payment?”

All answers are based only on the knowledge.txt file (RAG).

## 🧩 Built with

* Python 3.9+
* Whisper (local)
* Together API (Mixtral)
* ElevenLabs TTS
* Telegram Bot API
* dotenv, requests, pydub, SpeechRecognition

## 🧠 Use case ideas

* Customer support bots (internal docs)
* Medical triage bots (HIPAA-safe knowledgebase)
* Loan onboarding bots
* Multilingual smart assistants

## 🙌 Author

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