# MusicBrainz + Ollama CLI Assistant

MusicBrainz + Ollama CLI Assistant  
  
A command-line music information assistant that combines the MusicBrainz API with a local LLM (Mistral) through Ollama.  
It retrieves factual song metadata (credits, producers, composers, releases, etc.) and uses the LLM to respond conversationally — while staying grounded in verified MusicBrainz data.  
  
  
**Features**  
  
- Retrieve detailed song information from MusicBrainz  
- Generate natural, conversational answers using a local LLM (via Ollama)  
- Ask yes/no producer questions (e.g. “Is Skeletons by Travis Scott produced by Tame Impala?”)  
- Interactive top-3 candidate chooser for ambiguous queries  
- Deterministic fallback logic (works even if the LLM or Ollama fails)  
- Simple command-line interface — type queries naturally  
  
  
**Project Structure**  
musicbrainz-cli/  
├── test.py # MusicBrainz retriever (searches, fetches, parses API responses)  
├── test3.py # CLI assistant integrating Ollama + top-3 chooser  
└── README.docx

**Requirements**  
System:  
- Python 3.8+  
- Ollama installed and added to your system PATH (used to run the local LLM, e.g. mistral)  
  
Python packages:  
pip install requests  
  
Setup  
1. Clone the repository:  
 git clone https://github.com/aatishjainn/musicbrains.git  
 cd musicbrains  
  
2. Ensure Ollama is installed and a model is available:  
 ollama list  
 ollama pull mistral  
  
3. (Optional) Update User-Agent in test.py:  
 USER\_AGENT = "MyMusicChatbot/0.1 ( your\_email@example.com )"  
  
------------------------------------------------------------  
Usage  
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Option 1 — Direct Retriever  
python test.py  
  
Example:  
\*\*Shape of You\*\*  
by Ed Sheeran  
Released: Single Release (2017-01-06)  
Written by: Ed Sheeran | Produced by: Steve Mac, Johnny McDaid | Lyrics: Ed Sheeran  
Duration: 3:53  
  
Option 2 — Full Assistant (with LLM and top-3 chooser)  
python test3.py  
  
Example session:  
MusicBrainz CLI with top-3 candidate chooser  
Examples: 'Tell me about Bohemian Rhapsody by Queen' | 'Is Skeletons by Travis Scott produced by Tame Impala?'  
  
✅ Yes — MusicBrainz lists these producers for "Skeletons": Kevin Parker (Tame Impala), Mike Dean, Kanye West.  
  
 **How It Works**1. Parse query → extract title & artist  
2. Search MusicBrainz API for recordings  
3. Rank and display top-3 matches  
4. Let user select the correct one  
5. Fetch full relationships for MBID  
6. Build structured “facts” context  
7. Send to Ollama (Mistral) for conversational response  
8. Output concise, fact-based answer  
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**Acknowledgements:**- MusicBrainz — open music metadata database  
- Ollama — local LLM runtime  
- Mistral — efficient open-weight conversational model