

YouTube Movie Clip Evidence Collector

What the tool does end-to-end

Given a list of YouTube channels:

Pull all videos (or newest N / since last run)

1. For each video:
 - Collected metadata (title, description, publish time, stats, duration, tags, etc.)
 - Computed a **risk score** (heuristics or ML)
 - Preserved evidence artifacts into a folder:
 - i. video.json (API response)
 - ii. watch.html (page snapshot)
 - iii. thumbnail.jpg
 - iv. captions.vtt (if present)
 - v. manifest.json (hashes + timestamps)
2. Write a formatted **Excel report** summarizing results + file paths
3. Keep state in SQLite so subsequent runs are fully automated for minimal human interaction

Pipeline stages

- **Ingest:** channel discovery + video listing (YouTube Data API v3)
- **Enrich:** fetch details + stats + contentDetails
- **Detect:** score likely movie clip infringement
- **Preserve:** snapshot + download allowed artifacts + hash them
- **Report:** Excel output
- **State:** SQLite to dedupe + incremental runs

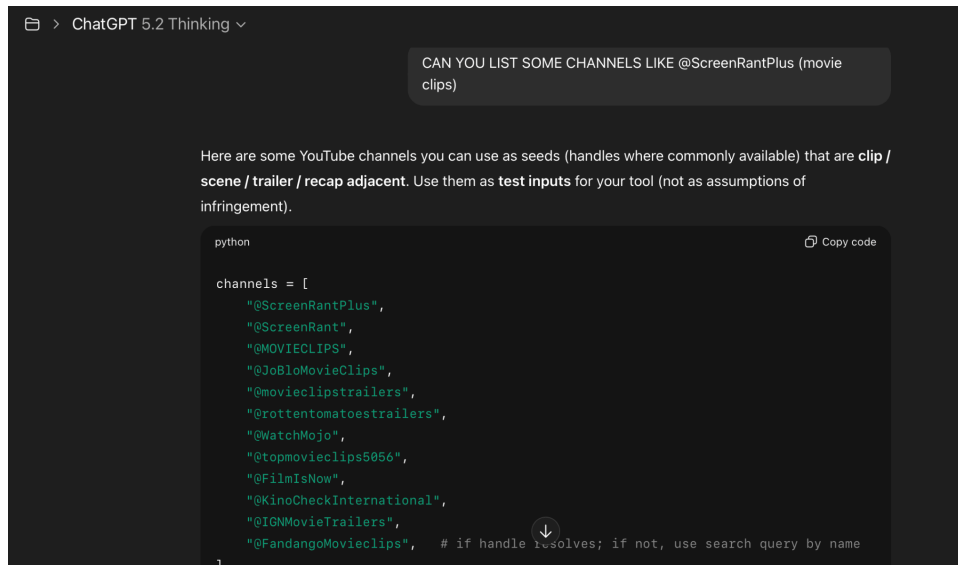
Note: I stored evidence of the video (metadata + snapshots + thumbnail + hashes), not the video media file itself.

Reason: Downloading the video stream can conflict with platform Terms unless you have explicit permission or a platform-approved approach.

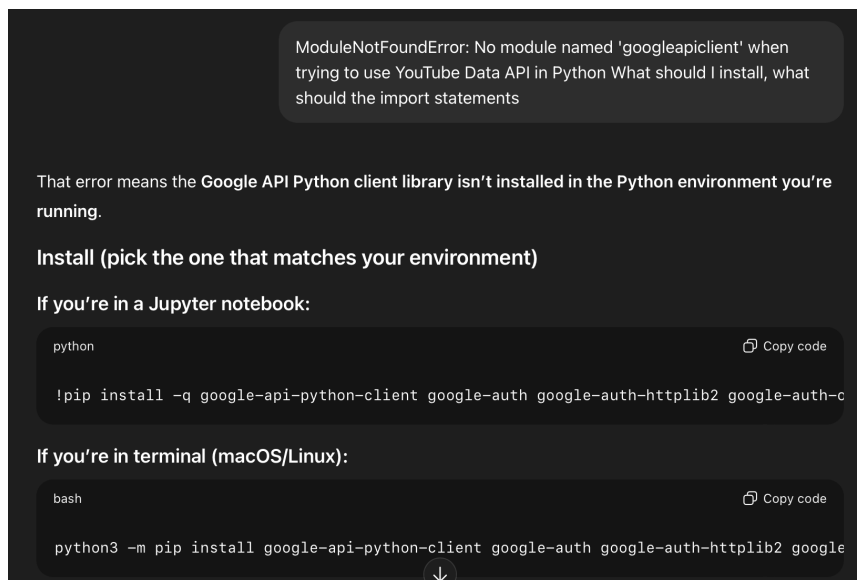
Free components used:

- YouTube Data API v3: Free quota (daily units).
- Python open-source libraries: free.
- Local file storage: free.

LLM Prompts used throughout:



I needed a list of realistic YouTube channels that frequently post movie clips or clip-like content so I could test my end-to-end pipeline across multiple accounts, validate that channel resolution works, and generate a richer Excel report.



Correct imports for YouTube Data API v3 (API key)

```
python

from googleapiclient.discovery import build
```

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That's all you need for API-key-based calls.

Quick verification snippet (should run without error)

```
python

from googleapiclient.discovery import build

API_KEY = "YOUR_KEY"
youtube = build("youtube", "v3", developerKey=API_KEY)

resp = youtube.search().list(part="snippet", q="@ScreenRantPlus", type="channel", maxRe
print(resp["items"][0]["snippet"]["channelId"])
```

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I hit an import error while integrating the YouTube Data API into my Python notebook. I needed to know the correct packages to install, the correct import statement for build(), and a minimal verification call to confirm the API client works before continuing development.

ChatGPT 5.2 Thinking

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I'm building a Python evidence-collection pipeline. Can you help me write utility functions (1) to create directories safely, to compute a file's SHA-256 hash (streaming in chunks) and to convert YouTube ISO 8601 durations like PT1H2M10S into seconds

Absolutely — here are clean, interview-quality utility functions for your pipeline (safe directory creation, chunked SHA-256, and YouTube ISO 8601 duration parsing).

```
python

import os
import re
import hashlib
from typing import Optional

def ensure_dirs(*paths: str) -> None:
    """
    Create one or more directories if they don't exist.
    Safe to call repeatedly (idempotent).
    """
    for p in paths:
        if not p:
```

Copy code



Ask anything

+ Thinking



Quick tests (optional)

python

Ask ChatGPT

Copy code

```
assert iso8601_duration_to_seconds("PT59S") == 59
assert iso8601_duration_to_seconds("PT2M") == 120
assert iso8601_duration_to_seconds("PT1H") == 3600
assert iso8601_duration_to_seconds("PT1H2M10S") == 3730
assert iso8601_duration_to_seconds("BAD") is None
print("Utility tests passed ✓")
```

I needed core helper functions to support evidence preservation and reporting reliably creating output folders, generating cryptographic hashes to verify integrity/chain-of-custody without loading large files into memory, and converting YouTube's ISO 8601 duration strings into seconds for scoring and Excel output. I asked to ensure best practices (chunked hashing, edge-case handling) and to reduce implementation errors, then verified correctness with small assertions.

ChatGPT 5.2 Thinking

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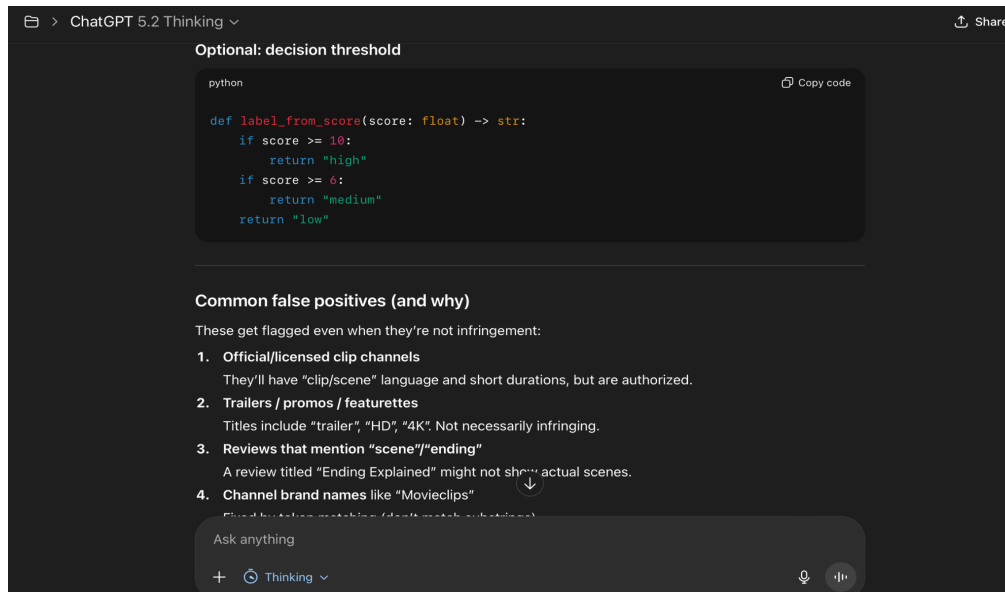
can you give me the list of keywords for movie scene detection and sample code to compute risk score for identifying likely movie-clip uploads from YouTube metadata like title/description/duration also explain common false positives/false negatives."

Here's a solid, **explainable** keyword set + a sample `compute_risk_score()` you can drop into your notebook. I'm keeping it practical for interview use: easy to justify, easy to tune.

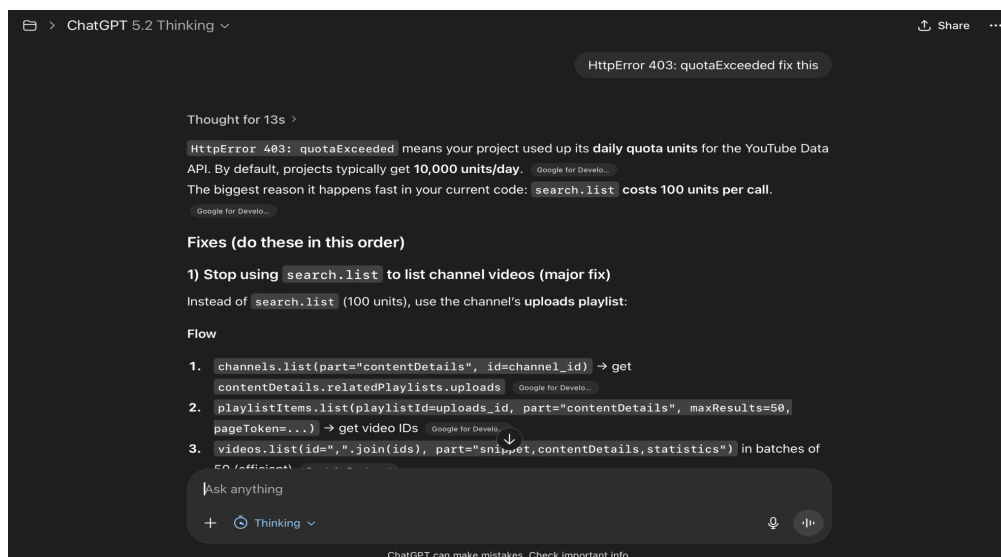
Keyword list for "movie scene / clip" detection (metadata-based)

A) Clip/scene intent keywords (strong signals)

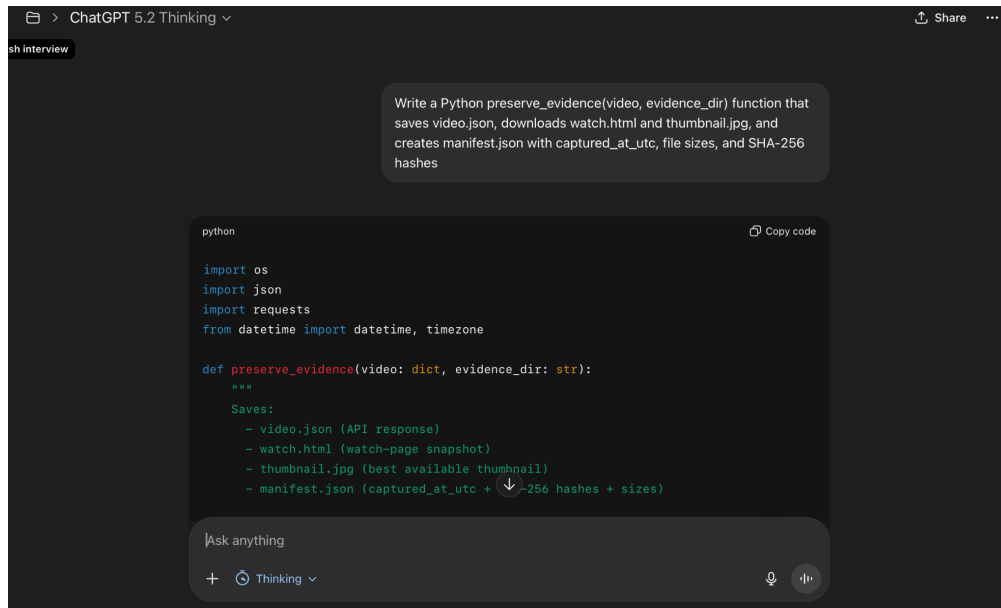
- clip, clips
- scene, scenes
- full scene
- movie scene, film scene
- ending, final scene, ending scene
- opening scene, intro scene
- best scene, best scenes, best moments



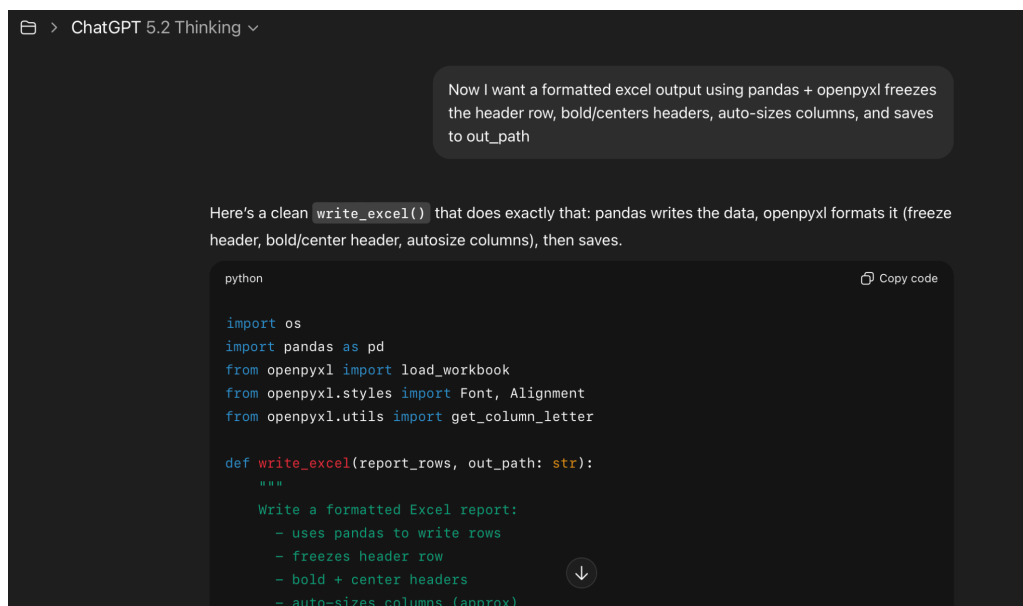
I needed an explainable heuristic detector that works using only YouTube metadata (title, description, duration) to prioritize likely movie-clip posts. I asked for a keyword set to seed scoring rules, a sample scoring function that avoids common substring mistakes, and a clear discussion of false positives/negatives so I can justify the approach and limitations.



I encountered a hard failure where the YouTube API stopped responding due to exceeded daily quota units. I needed a concrete mitigation plan that keeps the pipeline end-to-end, reduces unit consumption, and adds robustness (backoff/caching) so the tool functions reliably in real usage.



I needed the core evidence preservation function for my pipeline to store per-video artifacts (API JSON, page snapshot, thumbnail) and generate a manifest with timestamps and SHA-256 hashes so I can verify integrity and reference the stored evidence paths in the Excel output with minimal manual work.



I needed the pipeline to automatically generate a clean, reviewer-friendly Excel deliverable (not raw data). Freezing the header improves navigation, bold/centered headers improve readability, and auto-sizing columns prevents truncated evidence paths reducing manual work and ensuring consistent output.