

# VIDEO INDEXING



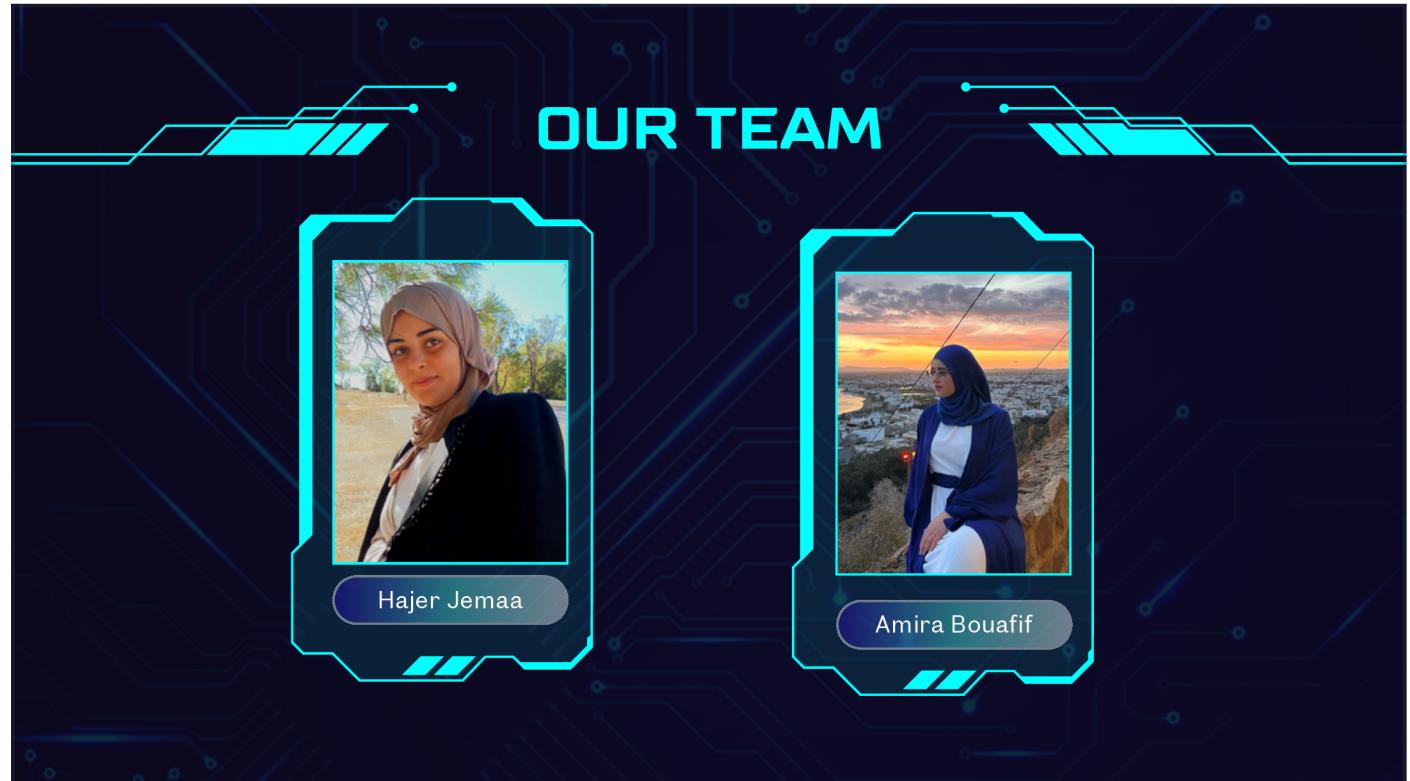
# OUR TEAM

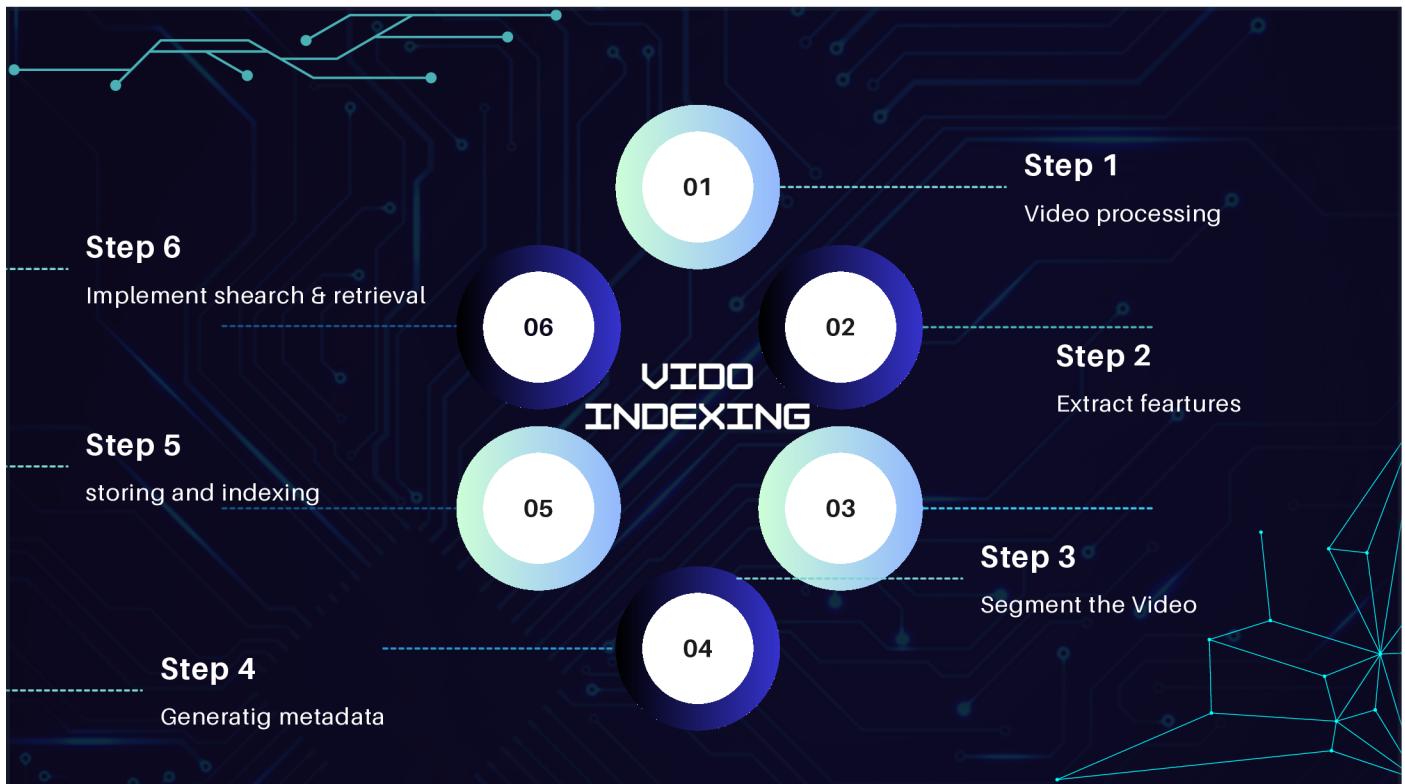


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# WHAT IS VIDEO INDEXING ?

Video indexing is the process of extracting, organizing, and categorizing information from a video to make its content more searchable, accessible, and understandable.

# 1. VIDEO PROCESSING

**1.1**

Convert the video into a format suitable for processing (e.g., MP4, AVI).

**1.2**

Extract individual frames or keyframes (important frames in the video).

**1.3**

**optional**

Enhance quality if needed (denoise, stabilize).



## 2. EXTRACT FEATURES

**2.1**

### Visual Features

- Identify objects, colors, and movements.
- Detect faces .

**2.2**

### Audio Features

- Use speech-to-text to extract spoken words.
- Identify background noise, music, or silence.

**2.3**

### Text Features

Detect on-screen text (e.g., subtitles, banners, captions).



## 3. SEGMENT THE VIDEO

**3.1**

**Shots**

Small parts between cuts or transitions

**3.2**

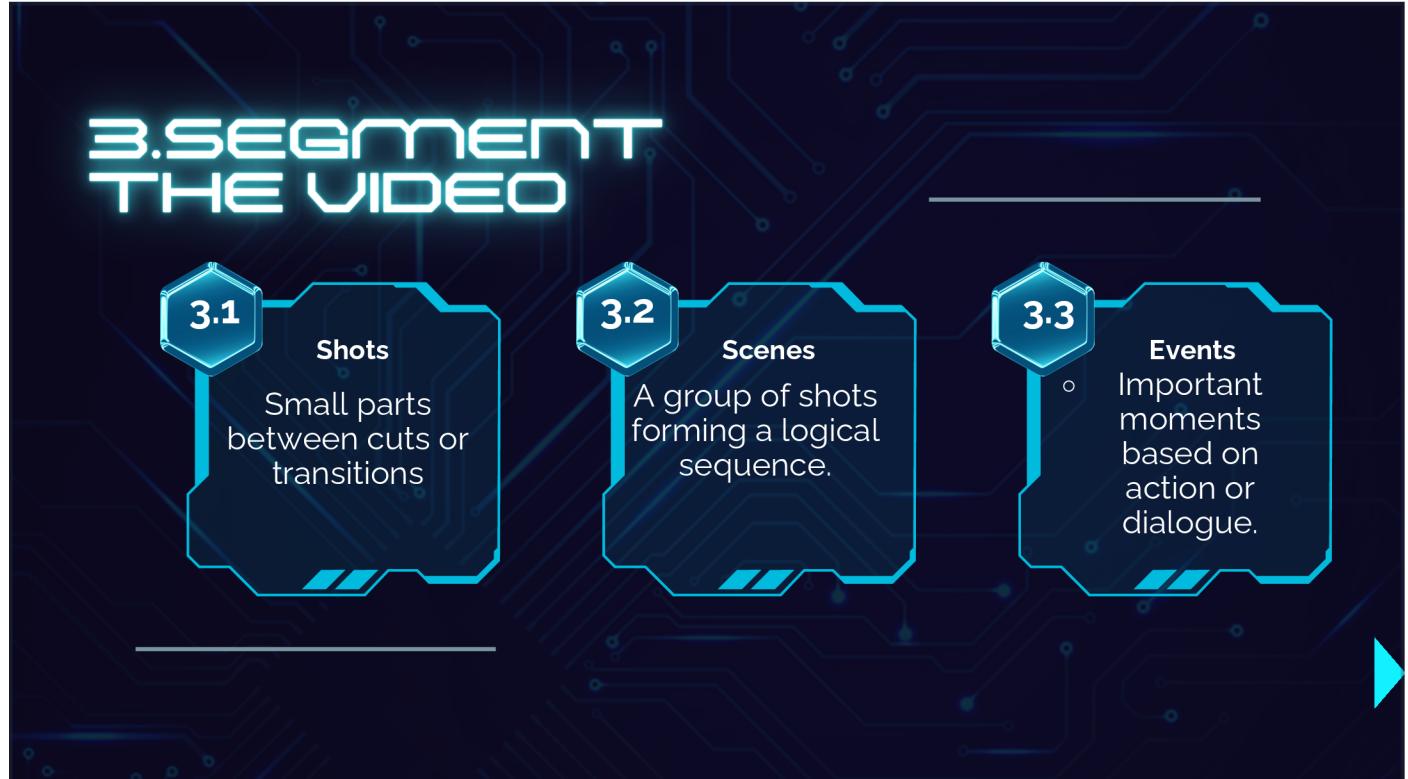
**Scenes**

A group of shots forming a logical sequence.

**3.3**

**Events**

Important moments based on action or dialogue.



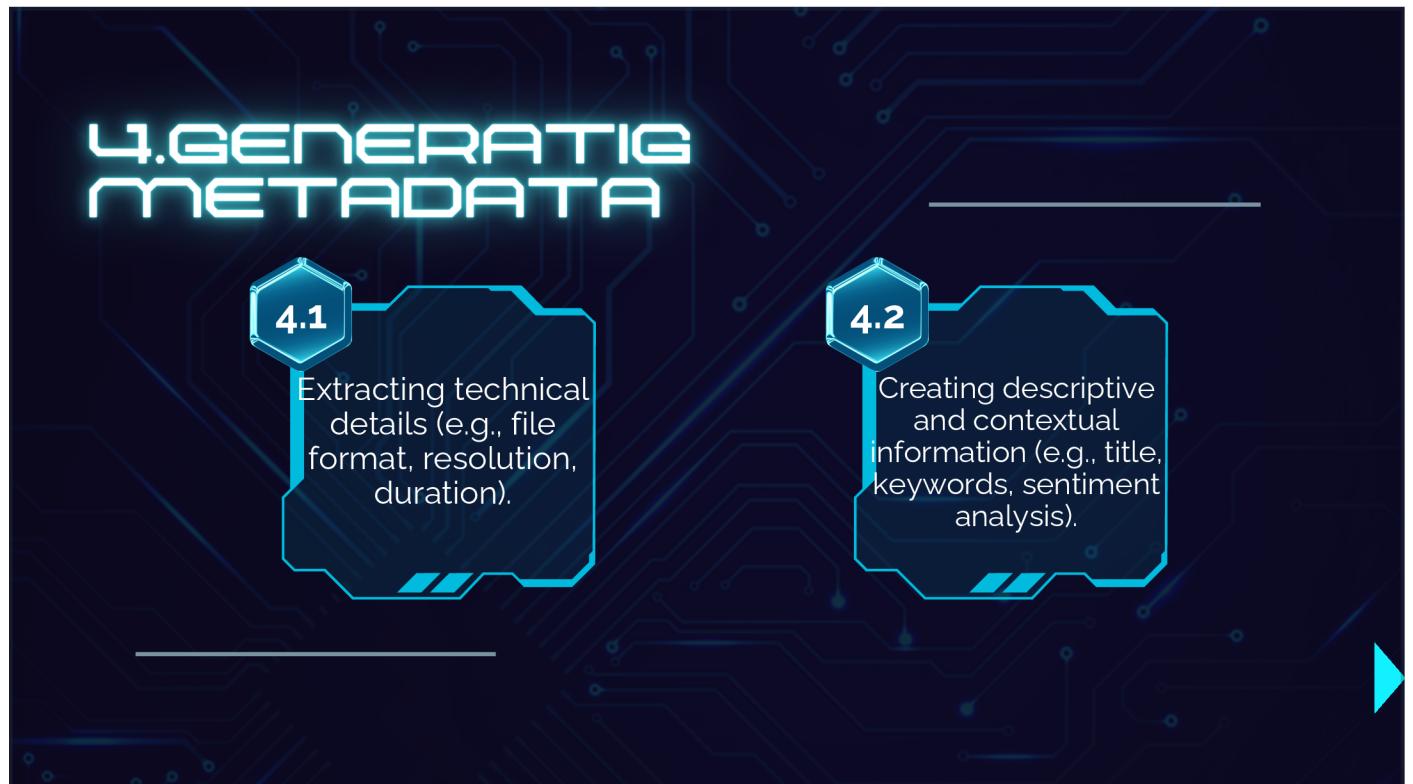
## 4. GENERATING METADATA

**4.1**

Extracting technical details (e.g., file format, resolution, duration).

**4.2**

Creating descriptive and contextual information (e.g., title, keywords, sentiment analysis).



# 5. STORING AND INDEXING

**5.1**

Organizing metadata in a structured format (e.g., databases, file systems).

**5.2**

Creating searchable indexes to enable efficient retrieval of content.

**5.3**

Optimizing for fast access through algorithms that rank and filter results based on relevance.

## 6. IMPLEMENT SEARCH & RETRIEVAL

**6.1**

Enabling searchability by allowing users to query specific keywords, timestamps, or topics.

**6.2**

Providing easy navigation with features like chapters, thumbnails, or timestamps for key moments.

**6.3**

Integrating with recommendation systems to suggest related content based on user preferences or video analysis.



**THANK YOU**