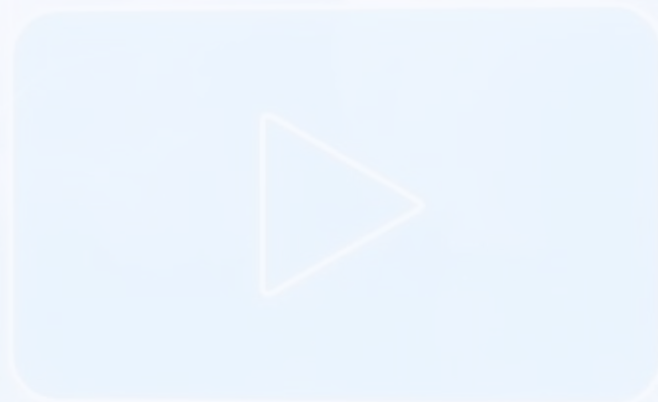


# VIDEO AI

Key GCP Video AI Services



# Google Cloud Video Intelligence API

**Overview:** This API enables you to analyze video content and extract useful information, such as objects, activities, and scenes.

1

## Label Detection

Identifies objects and activities within the video.

2

## Shot Change Detection

Detects transitions between shots.

3

## Explicit Content Detection

Identifies potentially inappropriate content.

4

## Speech-to-Text

Converts spoken words in the video into text.

5

## Text Detection

Extracts text from video frames.

# Google Cloud Video Intelligence API: Use Cases



## Content Moderation

Automatically flag inappropriate content.



## Metadata Generation

Add metadata to videos for easier search and organization.



## Enhanced Search

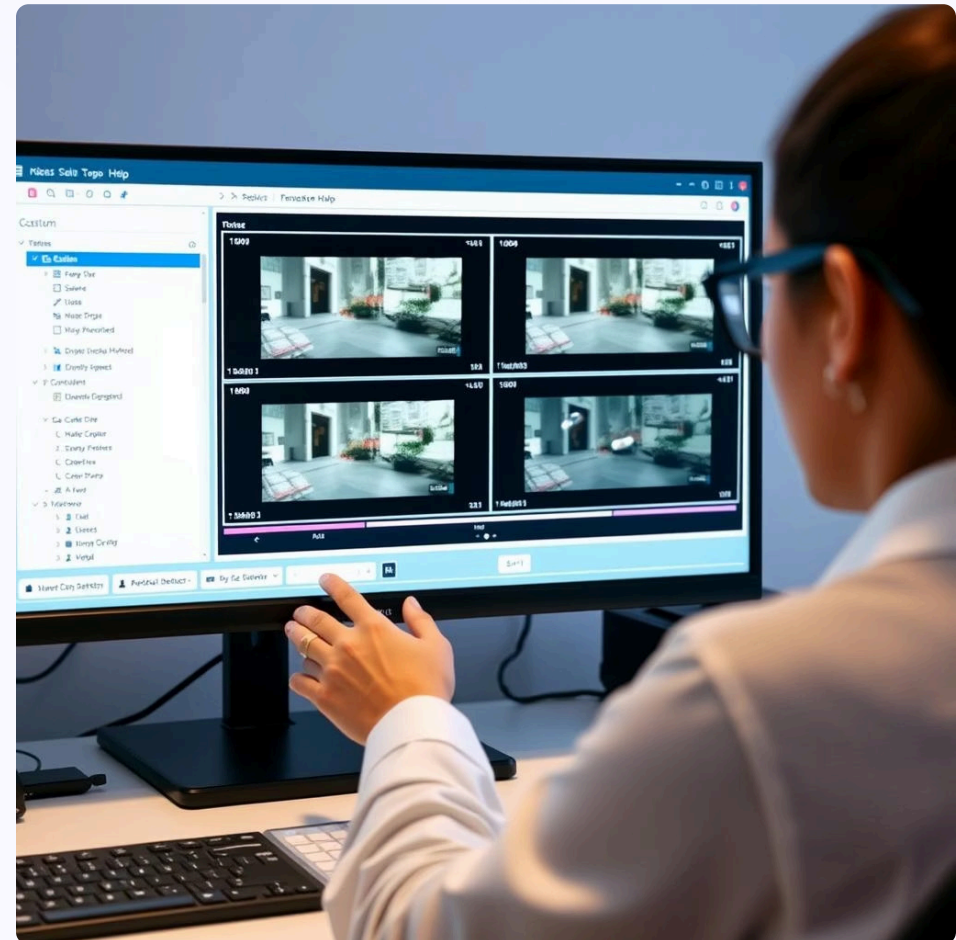
Improve video search capabilities with automated tagging.

# Google Cloud AutoML Video

**Overview:** AutoML Video allows you to create custom machine learning models tailored to specific video analysis tasks.

### Key Features:

- **Custom Labeling:** Train models to recognize specific objects or actions.
- **Video Classification:** Classify video content into predefined categories.
- **Object Detection:** Identify and track objects within videos.



# Google Cloud AutoML Video: Use Cases

## Custom Surveillance

Develop models to monitor specific types of activity or objects.

## Specialized Media Analysis

Analyze videos for specific features.

# Google Cloud AI Platform

**Overview:** AI Platform provides tools for building, training, and deploying machine learning models. It supports TensorFlow, PyTorch, and other frameworks.

## Custom Training

Train models on your own video datasets.

## Model Deployment

Deploy models for real-time video analysis.

## Integration with Video Intelligence API

Use custom models in conjunction with pre-built video analysis capabilities.

# Google Cloud AI Platform: Use Cases

**Custom Video Processing:** Develop and deploy advanced models for specific video processing needs.

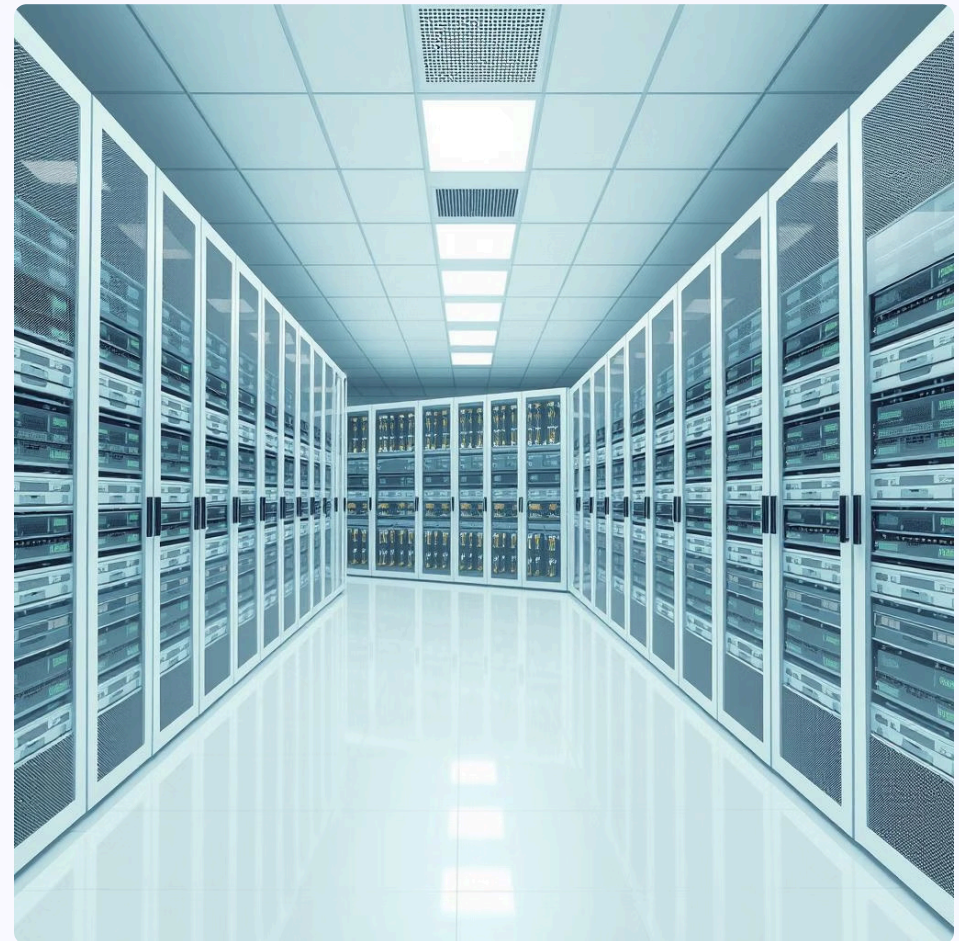


# Google Cloud Storage

**Overview:** While not an AI service per se, Cloud Storage is essential for managing large video datasets and integrating with other video AI services.

## Key Features:

- **Scalability:** Store and manage large volumes of video data.
- **Integration:** Seamlessly integrates with other GCP services for video analysis.





# Google Cloud Storage: Use Cases

## Data Management

Store video files before and after analysis.

# Summary of GCP Video AI Services

The Google Cloud Platform offers a comprehensive suite of services for video AI, ranging from pre-built APIs for general analysis to custom model development and robust data storage solutions. These services empower businesses to extract valuable insights from video content, automate workflows, and build specialized applications.

Whether it's for content moderation, enhanced search, custom surveillance, or advanced video processing, GCP's Video AI services provide the tools needed to leverage the power of artificial intelligence in video analysis.