

Step 3 - Face Data Extraction

Face Data from 30s Video

I could not creat resource for Azure video indexer, so I used the Azure video indexer portal instead.

[Home](#) > [Video Indexer](#) >

Create a Video Indexer resource ...

✖ Basics Tags Review + create

Create an Azure Video Indexer resource and get business insights into your video and audio files in a shared timeline and readable format. Easily extract your insights, no heavy lifting integration or machine learning knowledge needed. [Learn more](#) ↗

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Udacity CloudLabs Sub - 90 ▼

✖ Resource provider(s): Microsoft.VideoIndexer are not registered for subscription Udacity CloudLabs Sub - 90 and you don't have permissions to register a resource provider for subscription Udacity CloudLabs Sub - 90

Resource group * ⓘ

ODL-AIND-195739 ▼

[Create new](#)

Resource name *

udacityvideoindexer ✓

Region *

East US ▼

Existing content

☐ Connect all content from an existing classic account

i All the videos, files, and data associated with the classic account will be referred to this new account.

Upload video

Azure Video Indexer

Create unlimited account

Media files

Model customizations

Account settings

Extract insights and enhance your content

Search for any text, person, insight, or object in your videos

Search


Filters

Library

Projects

Samples

Upload




avkash-boarding-pass
Uploaded by ODL_User 19...

Result

Face thumbnail

Unknown #1




0:19 / 0:27

avkash-boarding-pass

Insights Timeline

Search

1 person



Unknown #1

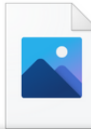
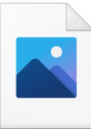
Appears in 99.62% of video

Play previous


Play next

File Home Share View Extract Compressed Folder Tools


This PC Downloads avkash-boarding-pass _KeyFrameThumbnail



Photos - KeyFrameThumbnail_6d2d2a91-26c8-40f8-9b4a-5d6b05263a8b.jpg



Photos - KeyFrameThumbnail_a42a938b-c63d-4653-bf21-f9d8fa331e4b.jpg



Person model

I could not proceed this step without the permission creating Azure video indexer resource.

Emotion and sentiment

These info are not extracted

```
"sentiments": [], "emotions": []
```

Face Data from Digital ID

Face Detection Functions Using Azure Face Service Python SDK

```
In [14]: # Detect Face form an image
def detect_face_from_any_url(selected_image):
    detected_faces = face_client.face.detect_with_url(url=selected_image, detection_model='detection_03')
    if not detected_faces:
        raise Exception('No face detected from image {}'.format(single_image_name))
    print('Total face(s) detected from {}'.format(str(len(detected_faces))))
    return detected_faces

In [15]: def list_all_faces_from_detected_face_object(detected_faces_object):
    print('We found total {} face(s) in selected face detected object.'.format(str(len(detected_faces_object))))
    for face in detected_faces_object:
        print (face.face_id)
```

Detecting faces from the input source image

```
In [16]: detected_faces_object = detect_face_from_any_url(selected_image)

Total face(s) detected from 1

In [17]: list_all_faces_from_detected_face_object(detected_faces_object)

We found total 1 face(s) in selected face detected object.
64ede11f-342f-428c-86c1-eb0c9bbc108c
```

Showing bounding box around the detected face

```
In [18]: drawFaceRectangles(selected_image, detected_faces_object)
```

