

Step 5 - Validation and Metrics Monitoring

Before Validation

All initial validation status values are set to FALSE in the flight manifest table

Validation

NameValidation

The first and last name extracted from the boarding pass and ID card must match with the name on the flight manifest table

DoBValidation

DoB extracted from the ID card match with the flight manifest table

BoardingPassValidation

The flight-specific information extracted from the boarding pass is matched with the flight manifest table. The information includes

- flight number
- seat number
- class
- origin
- destination
- flight date
- flight time

PersonValidation

Face extracted from the ID and that from the video should match, and the match result should be 65% or higher.

Here I got 81.3% as shown below

From video

```
In [17]: M keyframefromvideo_url = "https://github.com/yuanfresa/Azure-AI-Engineer-Nanodegree-Project-Portfolio/blob/main/Data%20Preparation%20Data%20Sets/face_recognition_data/face_recognition_data_1.jpg"
In [18]: M show_image_in_cell(keyframefromvideo_url)
In [19]: M video_face_object = detect_face_from_any_url(keyframefromvideo_url)
Total face(s) detected from 1
In [20]: M drawFaceRectangles(keyframefromvideo_url, video_face_object)
```



```
In [23]: M for face in detected_faces_object:
          source_face_id = face.face_id

In [25]: M for face in video_face_object:
          video_face_id = face.face_id

In [24]: M print(source_face_id)

59302563-fdac-4216-bbab-76b3c443b9f8

In [26]: M verify_result_same = face_client.face.verify_face_to_face(source_face_id, video_face_id)

In [27]: M print('Faces from id and video are of the same person, with confidence: {}'.format(verify_result_same.confidence))
          if verify_result_same.is_identical:
              print("Faces are Similar")
          else:
              print('Faces are of a different person, with confidence: {}'.format(verify_result_same.confidence))

Faces from id and video are of the same person, with confidence: 0.81296
Faces are Similar
```

LuggageValidation

The carry-on loose items in the passenger's pocket contain a lighter in it or not

All the luggages contain a lighter.

Conclusion

Most of the validation details are `TRUE` now