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In [ ]:
         pip install face recognition
In [ ]:
         import face recognition
In [ ]:
         import os
         import shutil
         def compare faces(face image path, leader folder):
             face_image = face_recognition.load_image file(face image path)
             face encodings = face recognition.face encodings(face image)
             # Check if any face encoding is available
             if len(face encodings) == 0:
                 return False
             # Iterate over the face images associated with the same leader
             for file in os.listdir(leader_folder):
                 if file.endswith(".jpg") or file.endswith(".png"):
                      leader_face_image_path = os.path.join(leader_folder, file)
                      leader_face_image = face_recognition.load_image_file(leader_face_image_path)
                      leader_face_encodings = face_recognition.face_encodings(leader_face_image)
                     # Check if any face encoding is available
if len(leader_face_encodings) == 0:
                          continue
                      # Compare the current face with the faces associated with the leader
                      results = face_recognition.compare_faces(leader_face_encodings, face_encodings[0], tolerance=0.35)
                      # Calculate the percentage of matching faces
                     matching_percentage = sum(results) / len(results) * 100
                      # If matching percentage is greater than 50%, categorize the face
                      if matching_percentage > 50:
                          return True
             return False
         def process_leaders(folder_path, output_folder_path):
             for leader_folder in os.listdir(folder_path):
    leader_folder_path = os.path.join(folder_path, leader_folder)
                 if os.path.isdir(leader_folder_path):
                      leader processed folder path = os.path.join(output folder path, "leader pictures processed", leader i
                      os.makedirs(leader_processed_folder_path, exist_ok=True)
                      for face_file in os.listdir(leader_folder_path):
                          if face file.endswith(".jpg") or face file.endswith(".png"):
                              face_image_path = os.path.join(leader_folder_path, face_file)
                              if compare_faces(face_image_path, leader_folder_path):
                                  destination_path = os.path.join(leader_processed_folder_path, face_file)
                                  shutil.copy(face_image_path, destination_path)
                                  print(f"Face {face_file} categorized for leader {leader_folder}")
         # Specify the input folder path where the extracted faces are stored
         extracted_faces_folder_path = "/Users/kei/Desktop/Extracted2"
         # Specify the output folder path on your desktop
         output_folder_path = os.path.expanduser("/Users/kei/Desktop/Processed2")
         # Create the leader pictures processed folder if it doesn't exist
         processed folder path = os.path.join(output folder path, "leader pictures processed")
         os.makedirs(processed_folder_path, exist_ok=True)
         print("Processing leaders...")
         process_leaders(extracted_faces_folder_path, output_folder_path)
         print("Leader processing completed!")
```