

In []:

```
!pip install Google-Images-Search
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In []:

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pip install google-search-results
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In []:

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import requests
import os
import pandas as pd
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In []:

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pip install opencv-python
```

In []:

```
API_KEY = "AlzaSyAv8zD_JA6FtYpLXmNX72d0j43rqhlZwak"
SEARCH_ENGINE_ID = "6231dbce7bb834aa5"
desktop_folder = os.path.join(os.path.expanduser("~"), "Desktop", "Leaders File")

if not os.path.exists(desktop_folder):
    os.makedirs(desktop_folder)

#if not os.path.exists(desktop_folder):
# os.makedirs(desktop_folder, exist_ok=True)

def get_image_results(query, start_index):
    params = {
        "key": API_KEY,
        "cx": SEARCH_ENGINE_ID,
        "q": query,
        "searchType": "image",
        "start": start_index,
    }

    response = requests.get("https://www.googleapis.com/customsearch/v1", params=params)
    data = response.json()
    return data.get("items", [])

df = pd.read_csv('heads_of_governments_and_states - Sheet1.csv')
leader_counter = 0

for index, row in df.iterrows():
    leader = row['leader']
    country = row['country']

    leader_counter += 1
    if leader_counter <= 0:
        continue # Start processing from the specified location

    query = f"President of {country} {leader} profile picture"
    folder_name = f"{country}_{leader}"
    folder_path = os.path.join(desktop_folder, folder_name)

    # folder_path = os.path.join(desktop_folder, folder_name)

    if not os.path.exists(folder_path):
        os.makedirs(folder_path)

    current_images = 0
    page = 1
    start_index = (page - 1) * 10

    while True:
        image_results = get_image_results(query, start_index)

        if not image_results:
            print(f"No more image results found for {leader} ({country}).")
            break

        for image in image_results:
            print(f"Downloading image {current_images + 1} for {leader} ({country})...")
            try:
                response = requests.get(image["link"], stream=True, timeout=10)
                if response.status_code == 200:
                    image_filename = os.path.join(folder_path, f"{leader}_{current_images + 1}.jpg")
                    with open(image_filename, 'wb') as file:
                        for chunk in response.iter_content(chunk_size=8192):
                            file.write(chunk)
```

current_images += 1

else:

print(f"Error downloading image {current_images + 1} for {leader} ({country}): {response.status_code}")

except requests.exceptions.RequestException **as** e:

print(f"Error downloading image {current_images + 1} for {leader} ({country}): {e}")

page += 1

start_index = (page - 1) * 10

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