

ArcFace

Currently the fastest and most accurate open source face recognition algorithm.

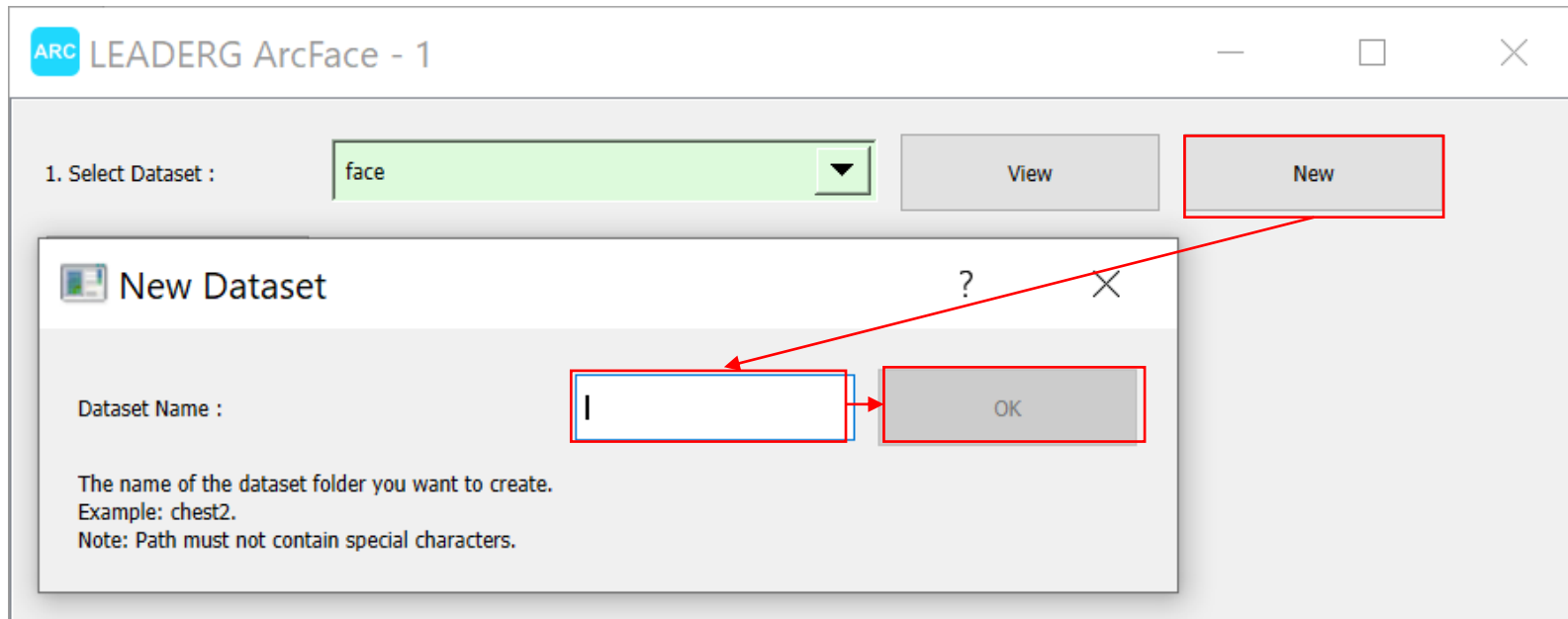
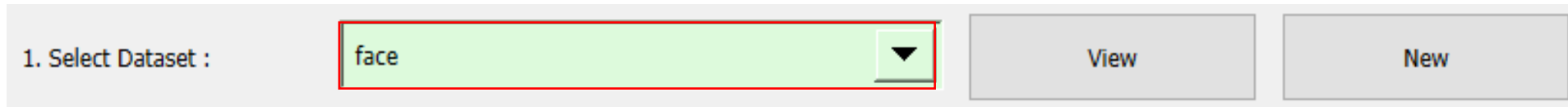
Version 20230103

Applications

- It can be used in artificial intelligence teaching materials, crime detection and prevention, access control and attendance, smart long-term care, public security, etc.

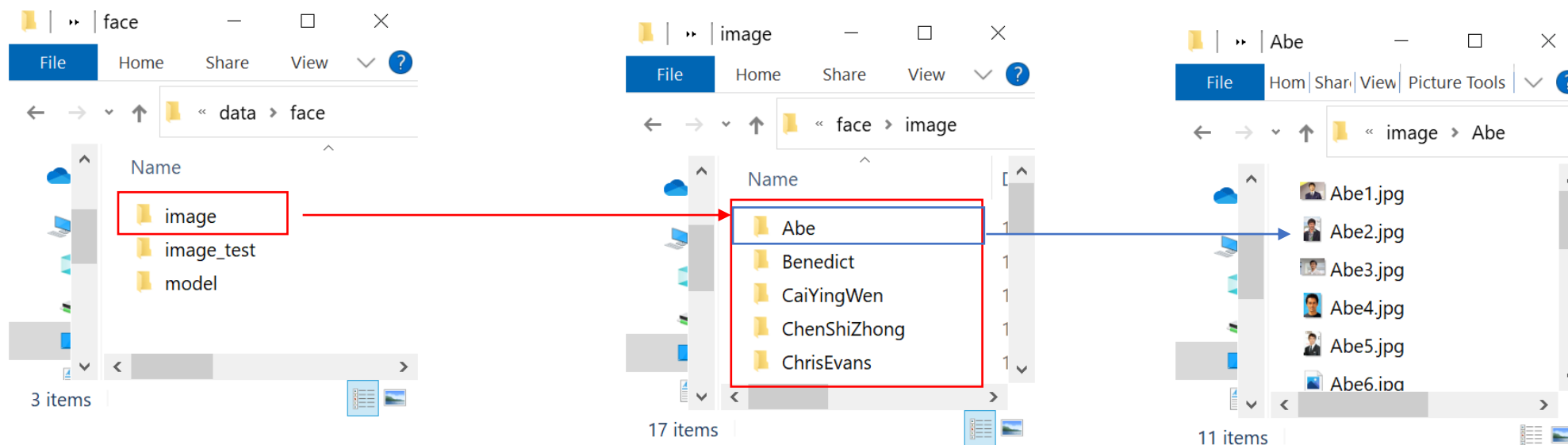
Data Preparation - Step 1

- Choose a dataset for AI learning, or create a new dataset.



Data Preparation - Step 2

- Click View => Prepare the dataset.
- image :
 - one folder per person



1_generate_feature_vector

- Generate feature vectors for each person's image.

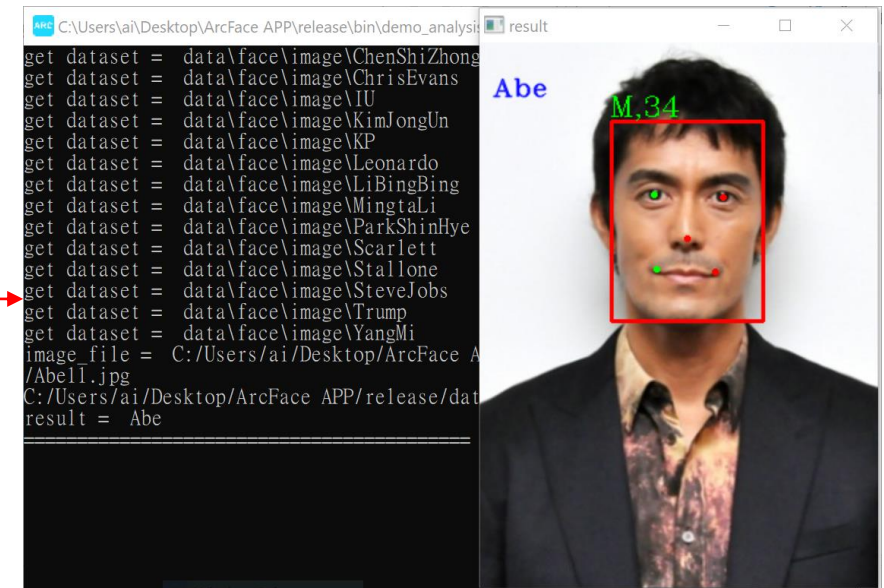
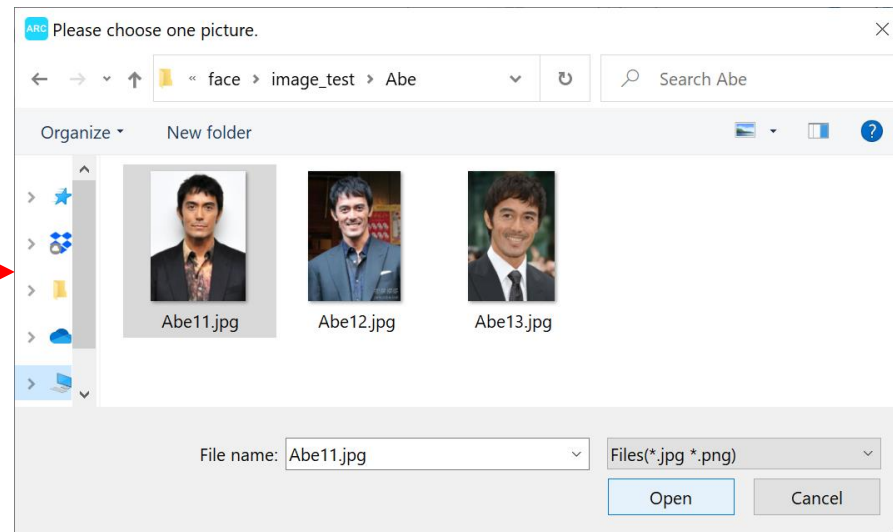
1.generate feature vector

```
C:\Users\ai\Desktop\ArcFace APP\release\bin\gene...  
image_file = data\face\image\Trump\Trump1.jpg  
image_file = data\face\image\Trump\Trump2.jpg  
image_file = data\face\image\Trump\Trump3.jpg  
image_file = data\face\image\Trump\Trump4.jpg  
image_file = data\face\image\Trump\Trump5.jpg  
image_file = data\face\image\Trump\Trump6.jpg  
image_file = data\face\image\Trump\Trump7.jpg  
image_file = data\face\image\Trump\Trump8.jpg  
image_file = data\face\image\Trump\Trump9.jpg  
Export data\face\image\Trump\feature_vector.txt  
get dataset = data\face\image\YangMi  
image_file = data\face\image\YangMi\YangMi1.jpg  
image_file = data\face\image\YangMi\YangMi10.jpg  
image_file = data\face\image\YangMi\YangMi2.jpg  
image_file = data\face\image\YangMi\YangMi3.jpg  
image_file = data\face\image\YangMi\YangMi4.jpg  
image_file = data\face\image\YangMi\YangMi5.jpg  
image_file = data\face\image\YangMi\YangMi6.jpg  
image_file = data\face\image\YangMi\YangMi7.jpg  
image_file = data\face\image\YangMi\YangMi8.jpg  
image_file = data\face\image\YangMi\YangMi9.jpg  
Export data\face\image\YangMi\feature_vector.txt  
Press any key to continue . . .
```

2_inference

- Infer a single image.
- Click 2.inference => choose an image => get results.

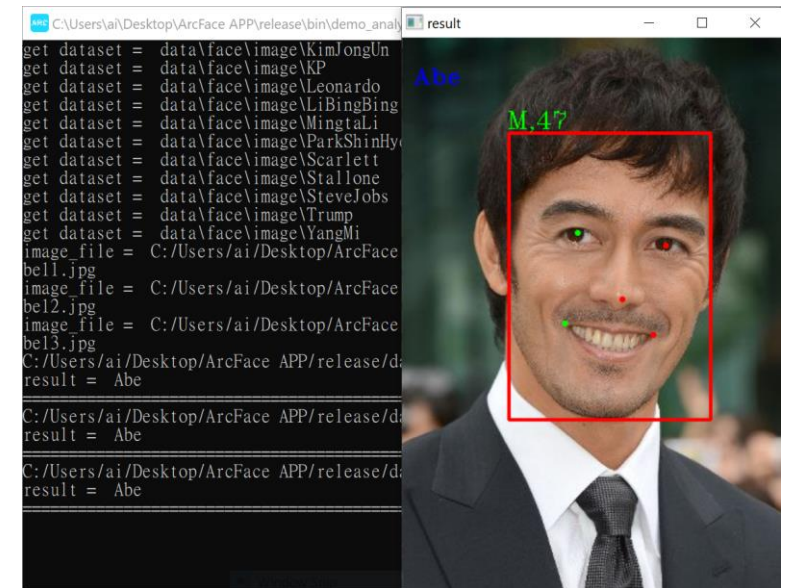
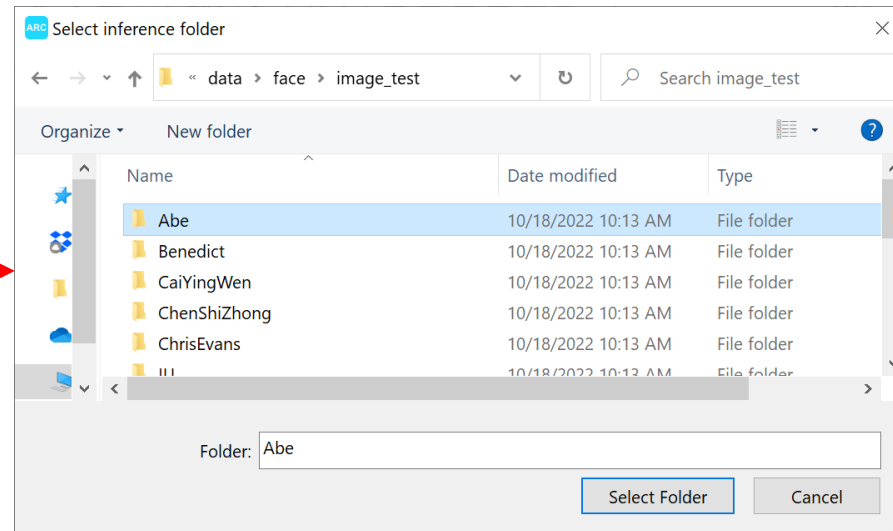
2.inference



3_inference_folder

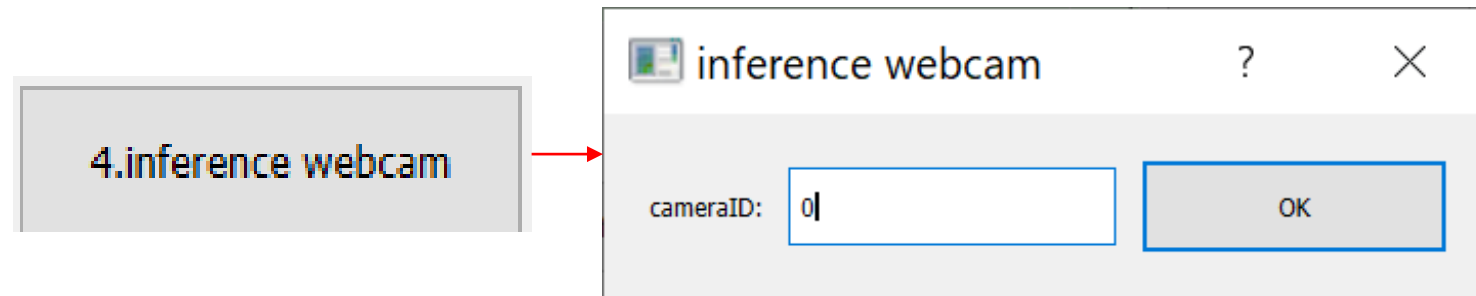
- Infer all images in the folder.
- Click 3.inference folder => choose a folder => get results.

3.inference folder



4_inference_webcam

- Inference live image.
- Click 4.inference webcam => setting parameter => get results.



Reference

- Please refer to the readme.txt in the APP folder.
- LEADERG AppsForAI : <https://www.leaderg.com/appsforai-windows>
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