Machine learning

Term Project

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Convert Male picture to female and vice-versa with Machine Learning

-observe the following results.



Here the first image is converted into second by a Machine learning model. This is really a fun application to show what machine learning can do. In its core, the application uses GAN (generative adversarial network), which a type of Machine learning which is capable to new examples on its own.

Requirements:

- Python
- Tensorflow
- GPU /laptop
- * Training a model using a GPU. the training takes 30 to 40 mint~hours for one image.

Development.

Step 1: Download the repository and extract it locally.

Step 2: Download the "Align&Cropped Images" from CelebA dataset. Create a datasets folder by name "dataset" and extract all images in it

Step 3: Train the model by:

python3 dm_main.py --run train

and then test it by passing the image to convert

python3 dm_main.py --run inference image.jpg