

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 is 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 minutes~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
```

Weekly schedules and milestones :

It takes four weeks to complete the project. we will complete the code ,interface and all things in two weeks and remaining two weeks we will work on model training to convert male picture to female correctly.

Members Roles :

- Amjad will complete the code.
- Amal will complete the interface.

GitHub account :

- amal44

URL for the project :

- [hope.github.io/machine learning-term project-amal.amjad.pdf](https://hope.github.io/machine%20learning-term%20project-amal.amjad.pdf)