UDACITY

PROJECT

Generate Faces

A part of the Deep Learning Nanodegree Foundation Program

PROJECT REVIEW

CODE REVIEW

NOTES

SHARE YOUR ACCOMPLISHMENT!

Meets Specifications

Hey, excellent job!
Congratulations on passing the GAN's Generate Faces project

To master your skills the best thing is to get your hands dirty, I highly encourage you to find an image dataset and try to preprocess and run build/run GANs model for that on your own. Few ones that I can suggest are Food dataset, Cat vs Dogs and CIFAR(which you are already familiar with). And here is a little list of hacks to keep next to you when working with GAN's to make them work better: https://github.com/soumith/ganhacks. Have fun!

As the further reading, I would recommend you few posts and a paper: a really great quality read about GANs - click, a post about how would you create a MNIST generator but using Keras library - click and really cool paper about Face aging with GANS

To keep track of the recent and hot DL/AI/CV research papers I highly recommend you to use http://www.arxiv-sanity.com/ by @karpaty and here is the list of recent GAN's ones: CLICK have a look.

Congratulations again! Amazing job!
Kudos

Required Files and Tests

The project submission contains the project notebook, called "dlnd_face_generation.ipynb".

iPython Notebook is present.

All the unit tests in project have passed.

Your code passed the unit tests. Great job!

Build the Neural Network

The function model_inputs is implemented correctly.

The function discriminator is implemented correctly.

The function generator is implemented correctly.

The function model_loss is implemented correctly.

The function model_opt is implemented correctly.

Flawless implementation of all GAN's components!

Neural Network Training

The function train is implemented correctly.

- It should build the model using `model_inputs`, `model_loss`, and `model_opt`.
- It should show output of the `generator` using the `show_generator_output` function

Everything is good here

The parameters are set reasonable numbers.

The project generates realistic faces. It should be obvious that images generated look like faces.

Great results with the number of epochs set.
Consider training the GAN longer to see what happens and check out the list of hacks to improve the results.

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