

PROJECT

Generate Faces

A part of the Deep Learning Nanodegree Foundation Program

PROJECT REVIEW CODE REVIEW Meets Specifications SHARE YOUR ACCOMPLISHMENT Congratulation! You have past last project! I suggest you to read following articles to know how to improve results in GAN: https://github.com/soumith/ganhacks#how-to-train-a-gan-tips-and-tricks-to-make-gans-work http://blog.otoro.net/2016/04/01/generating-large-images-from-latent-vectors/ Great job! Required Files and Tests The project submission contains the project notebook, called "dlnd_face_generation.ipynb". All the unit tests in project have passed. All the code snippets and unit tests are running perfectly. **Build the Neural Network** The function model_inputs is implemented correctly. The function discriminator is implemented correctly. Great job with using leaky relu, dropout and batch normalization! The function generator is implemented correctly. Good job with using tanh at the last layer The function model loss is implemented correctly. Well done with smoothing! This prevent discriminator from being too strong. The function model_opt is implemented correctly. Great! **Neural Network Training** The function train is implemented correctly. • It should build the model using <code>model_inputs</code> , <code>model_loss</code> , and <code>model_opt</code> . $\bullet \ \ \text{It should show output of the} \ \ \text{generator} \ \ \text{using the} \ \ \text{show_generator_output} \ \ \text{function}$ The parameters are set reasonable numbers. I think you hyperparameters are set to good values!
I've found for myself that generation is better with low batch size around 8 - 50. You have 10 - which is optimal. Also you use good value for the momentum term betal = 0.5 to stabilize training. Greater momentum can results in the training oscillation and instability (https://arxiv.org/pdf/1511.06434.pdf). The project generates realistic faces. It should be obvious that images generated look like faces. I think your generated faces are already good. We can clearly see the faces! **山** DOWNLOAD PROJECT

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