Deliverable #3

1. Final Training Results

So, for this deliverable I decided to experiment with a different model. What I did is I used a feed forward image transformation network in order to train it to transform any given picture into the style of a specific piece of art. Now for this implementation, I ran into a lot of issues and spent some time with Rick working on it. We weren't able to debug the code. The output images that were being produced were being decoloured by the Mean-Squared error. So with the help of Rick, we played around with the model by adjusting the weight of the style-loss, and adjusting the learning rate. Ultimately, we came to the realization that since I don't have a GPU, constantly adjusting and retraining my model was not a feasible task. Therefore, although I did push the code to my feedforward network, I decided it was better to keep my first implementation which is also more flexible since instead of training the model for the style of one specific painting, I could use any painting I want.

2. Final demonstration Proposal:

For my application I would create a very simple single page application using NodeJS. The landing page will have a tab to upload images where the user can upload an image by clicking on it. It will be a very simplistic page. After the neural style transfer occurs, the stylized image will be displayed on that landing page.