**Practicum Summary**

by Olga Moskanova

1. What I learnt:

* I vastly improved my knowledge of PyTorch framework and skills in image classification
* I became more confident with creating, training and tuning NNs
* Learnt how to debug NNs, training & testing process
* Learnt about deepfakes, how to generate them and protect the network
* Learnt how to craft & use generative networks, and successfully tried them out on a MNIST, SVHN & CIFAR10
* Had a great time competing on Kaggle and creating a deepfake detector
* I have also read a tonn of scientific articles on ML, deepfakes, autoencoders, SGD optimisators, etc.; PyTorch documentation became familiar friend for me. All these gave me so much new information I couldn’t even think of. Like discoverage of an entire new continent!

1. What I liked:

* First of all, I really appreciated great work of our mentors. Thanks a lot for patience, help, all the explanations and advices!
* I had a great time working on all problems remotedly, thanks for such an opportunity
* I liked all the challenges made for us. They were exciting, even though I haven’t slept for ages and stared at the screen like Gollum at his precious ring :)
* All the notebooks with tasks were very explanative, so I had minimum questions like “wtf is this line doing?”
* All the lectures contained material important for practicum tasks completion
* I liked learning new things and improving my knowledge, this is always fascinating experience
* I certainly loved the case with decreasing loss “problem” :)
* I also enjoyed our teatime at Samsung office and “Щас би чаю бахнуть...”

1. What I disliked:

* We have not worked with cluster for training something massive, like deepfake classifier for small videos. This also implies that we had not worked with training on multiple GPUs