

BOBKOV DENIS

✉ dnbobkov@edu.hse.ru |  [retir](#) |  [retir](#)

Education

Higher School of Economics

Faculty of Computer Science (ML and applications spec)
• Applied Math and Information Science, 9.12 GPA

Moscow
Sep. 2019 – June 2023

Higher School of Economics

Faculty of Economic Science
• Financial Markets, 9/10

Moscow
Sep. 2020 – June 2022

Projects

Style-Big GAN

github.com/retir/Style-Big-GAN

- It is a 3rd course research project devoted to combining Style-GAN and Big-GAN models
- We researched methods of scaling up GAN's and impact of adding attention layers in models
- As a result we improved FID of generated images from 6.27 to 4.17 and IS from 9.4 to 9.78
- Universal starter for GAN models written on torch
- Allow you to select parts for your network such as generator, discriminator, loss and etc.

ASR model

https://github.com/retir/dla_project1

- Implementation of DeepSpeech v2 ASR model
- On LibriSpeech test-other dataset achieved CER is 0.103 and WER is 0.224
- Source code support LM's and other ASR architectures

Telegram Notification Bot

github.com/retir/Telegram-notification-bot

- Bot sends custom notifications to users
- Users can select the body, time, and frequency of notifications sent

Work Experience

AIRI Internship

Nov. 2022 - present

- The task is to edit human faces with pretrained StyleGAN 2
- New encoder architecture and training pipeline, allows edit images much naturally
- Improved inversion LPIPS from 0.67 to 0.31, L2 from 0.012 to 0.005, FID from 10.86 to 5.85, achieved new SOTA
- The paper will be submitted to the A-A* level conference

Additional courses

Tinkoff Applied Statistic

[Certificate link](#)

- Parameter estimation and A/B testing
- Production analysis

Machine Learning and Data Analysis

[Certificate link](#)

Supervised Learning

- Linear models, Random forest, Basic Neural networks

Databases

[Certificate link](#)

- Relational databases
- SQL queries

Neural Networks and Deep Learning

[Certificate link](#)

- DL for Regression and Classification
- FC and Convolutional Models

Skills

Languages: Python 3, SQL, C/C++

Spoken Languages: Russian, English

Tools: Jupyter Notebooks, Git, SSH, LaTeX, Apache Hadoop, Docker

Libraries: PyTorch, NumPy, Pandas, Matplotlib, SciKit-Learn