daniilkorolev2000@mail.ru

github.com/Danielto1404

TECHNICAL SKILLS

Programming Languages:

 Advanced in Java, Swift, Python, Haskell Familiar with C++, Obj-c, Kotlin Frameworks:

• Python: numpy, pandas, sklearn, pytorch, implicit, catboost, word2vec, bert Working experience: git, google colab

EDUCATION

ITMO University, St. Petersburg

Bachelor's in applied mathematics and Informatics

2018-2022

Relevant Coursework: NLP, ML, Recommender Systems, RL, Algorithms and Data Structures, Computer Architecture, Discrete Mathematics, Programming Paradigms, iOS VK course, C++ course, Java course, Maths logic, Operating systems, Haskell course, CTF Reverse course, Translation methods course

Presidential Physics and Mathematics Lyceum №239, St. Petersburg

WORK EXPERIENCE

Sixhands.co

August 2020 - October 2020

iOS Junior developer

Mobile iOS application development for renting premises: Localchair

- Using Alamofire
- REST API
- Using MVP pattern with router

OK.ru

October 2020 — January 2021

iOS Junior developer

Upgrading mobile application for OK.ru social network. Implementing ad in feed, fix bugs.

- OK iOS SDK
- Instagram IGListKit framework
- Auto Layout
- Parser generator techniques

ML Projects

Deep-Q-Learning [Python] source code

- Implementations of Deep Q-learning algorithm for different gym environments
- Support Atari games with env preprocessing

Matrix Factorization algorithms for collaborative filtering [Python] source code

- Implementation of most common matrix factorization algorithms: BPR, ALS, SVD, WARP
- Tested on movielens dataset

Self-written Neural Network library [Python] source code

- Provides interface for linear layers
- Implemented different optimizers (Adam, RMSProp, AdaGrad, Momentum)
- Implemented different loss functions (MSE, Cross Entropy)
- Implemented init-schemes for weights

Music-WSDM competition on Kaggle.com [Python] source code

• Used techniques: NLP (word2vec), Gradient Boosting (CatBoost)

ML algorithm developing library: https://github.com/Danielto1404/ML-ALGO

University projects: github.com/Danielto1404/Univeristy