Aliakbar Abdurahimov

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EDUCATION

NRU HSE, Moscow
Bachelor's degree, Bachelors Programme: Business Informatics
Expected June, 2020 GPA: 8.42/10.00

Term paper: Design and development database for the sales department of some firm.

https://www.hse.ru/en/staff/sefremov

Advisor: Sergey Efremov

Thesis: Machine learning task of syntactic analysis of NL

https://www.hse.ru/en/org/persons/98405261

Advisor: Andrey Dmitriev

RELEVANT COURSES

• Data Structures and Algorithms • Java for Android • Software Engineering
• Operating Systems • Big Data Integration and Processing
• Introduction to Data Science in Python • Introduction to Recommender Systems

PROJECTS

Ask me **Sep/2017 - June/2018** NRU HSE

The project consists in introducing machine learning methods and implementing the dynamic memory network (DMN) neural network model from the Ask me anything article, which allows you to answer a question posed to it taking into account the previous context. This task is very relevant, since a model that is able to naturally respond to human questions will be a good interface for human-machine interaction.

As an example of use, the model is trained on the bAbI tasks dataset, which contains 20 different types of questions of a certain structure.

Build a Generative Adversial Network to quickly generate CERN particle response calorimeters
Sep/2018 - June/2019 NRU HSE/CERN

The aim of the project is to use the GAN - Generative Adversarial Network or generative-adversarial networks to build a model for generating the responses of calorimeters of elementary particle detectors at CERN. During the work on the project, we got acquainted with the basics of teaching without a teacher, the design of generative-competitive networks, and also with the structure of the experiments of the Large Hadron Collider. Using GAN, unlike a full computer simulation of an experiment, allows generating calorimeter responses with less time and resources.

- **Technology/Tools:** Python, BeautifulSoup, MySQL, Omdb API
- **Link :** https://github.com/murtazoalii/HSEGAN

Bank Application NRU HSE
Sep/2016-Dec/2016

A simple application that simulates the workflow of a mobile-app client and is responsible for showing relevant card transactions, current balance, payments' history .

- **Technology/Tools:** The app is mostly written in Swift, but some parts include Objective-C and PHP. Since the beginning few of the frameworks have been used, for instance, SWRevealViewController and SmileLock.
- **Link :** https://github.com/murtazoalii/bankapp

Academic Project: Vending machine NRU HSE
APPLICATION Sep - Dec 2018

Development of an online platform in C-sharp System status is defined by the money deposited and the item which the customer wants to buy. Since the 1 level voltage created by coins and by users pressing the button cannot maintain a long time, we use D flipflop arrays to record the amount of money and the item.

- **Technology/Tools:** C-sharp, MySQL

CERTIFICATION .

- **APIO - Silver Medal** **Apr 2015**
- **Semifinalist - VK Cup 2016 Championship** **Dec 2016**
- **MosCode International Festival Prize winner 3rd place** **May 2017**
- **MosCode International Festival Prize winner 3rd place** **Apr 2018**

• **Deep Learning** by deeplearning.ai on *Coursera*
Verify : https://www.coursera.org/verify/5RUUEUZJZBN8
• **Mathematics for Machine Learning: Linear Algebra** by Imperial College London on *Coursera*
Verify : https://www.coursera.org/verify/X27VFE2AR9R4

EXPERIENCE ***Tajik Sodirot Bank : Software engineering*** ***June 17 - Aug 17***
Development of a platform for online money transfers around the world.

Colibri IT : Software engineering **Feb 17 - Aug 18**
The main task was to develop a restaurant management system, which was supposed to work in real time and process large amounts of data. The product is called Smarty. Currently functioning successfully.

NRU HSE : Teacher Assistant **Sep 17 - June 18**
Conducted seminars on Discrete Mathematics, Machine Learning and Programming in C-sharp/Python

TECHNICAL SKILLS
Languages : Python, C++, C, C, Assembler, Swift, Objective C
Database : MySQL, PostgreSQL
Tools/Framework : Flask(Python)
Familiar : Java, Matlab, Javascript, HTML, CSS
General : Data Structures, Algorithm, Object Oriented Programming

PERSONAL DESCRIPTION AND QUALITIES • Honest, responsible, communicative, team player, creative thinking, great capacity for work, goal-oriented. I have deep interest in studying and conducting state-of-the-art research in machine learning