Kiarash Aghakasiri

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PERSONAL DETAILS

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INTEREST

• Machine Learning / Reinforcement Learning

• Artificial Intelligence / Computer Vision / Natural Language Processing

EDUCATION

University of Alberta

MSc. Computing Science

Being in the top 100 universities in the world

Edmonton, Alberta, Canada

September 2019 - Expected July 2021

Iran University of Science and Technology

BSc. Computer Engineering concentration on AI
Rank 3rd among Iran universities by QS Ranking

Tehran, Tehran, Iran September 2015 - July 2019

(GPA = 3.87)

Allameh-Helli (NODET)

MidSchool, HighSchool, PreUniversity

National Organization for Development of Exceptional Talent

Tehran, Tehran, Iran

September 2008 - June 2015

(Diploma GPA = 4)

PERSONAL ACHIEVEMENTS

- Succeeded to rank second top student in B.S. with GPA 17.78/20 = 3.87/4
- Winning an award for being the top student of the year 2016 and 3rd top student of the year 2017
- Being in the first 0.1% in national graduate school entrance examination
- Gain an opportunity for going to MSc without taking the national entrance examination from two of Iran best universities (Sharif University of Technology and Iran University of Science and Technology)
- Participate in university booth in the "18th Exhibition of Research, Technology Achievements and Techmart" and Succeeded to Achieve one of the 12th best booths in the exhibition

- Win a second place in intra-university ACM tournament
- Being a member of National Organization for Development of Exceptional Talent for ten years
- Admission at the first stage of Mathematics and Computer Olympiads in high school

ACADEMIC EXPERIENCE

University of Alberta

Edmonton, Alberta, Canada

Instructor: Dr. Geoff Hollis

Intro to Foundations of Computing TA

September 2019 - December 2019

Iran University of Scinece and Technology

Tehran, Tehran, Iran

Machine Learning Researcher

June 2018 - July 2019

Transfer Learning for RL Agents / Image Captioning for Persian Language

Supervisor: Dr. Nasser Mozayani

Data Mining Researcher

January 2016 - July 2019

Fraud Detection / Persian Word Association Norms / Dataset for Hashtag Recommendation

Supervisor: Dr. Hossein Rahmani

Computational Intelligence Tutor

January 2019 - June 2019

Teaching Neural Networks basics to undergraduate students and assigning small projects in Keras (Python)

Instructor: Dr. Nasser Mozayani

Natural Language Processing Tutor

January 2019 - June 2019

designing small projects for undergraduate student in regard to Persian language

Instructor: Dr. Sauleh Eetemadi

website: https://sauleh.github.io/nlp97/

Artificial Intelligence and Expert Systems Tutor

September 2018 - January 2019

Teaching undergraduate students, assigning weekly assignments and give them projects in python

Instructor: Dr. Mohammad Taher Pilehvar

website: https://iust-courses.github.io/ai97/

Theory of Languages & Automata Tutor

September 2017 - January 2018

Teaching undergraduate students theoretical aspects of Automata, giving them homework, and checking the answers

Instructor: Dr. Hossein Rahmani

Foundations of Computer & Programming Tutor

September 2016 - January 2017

PUBLICATIONS

• Arezoo ZARE, Hossein RAHMANI, Fateme KARIMKHANI, Raana SAHEBNASSAGH, Kiarash AGHAKASIRI. Tarvajeh: Free-association norms for Persian words (Submitted)

TECHNICAL SKILLS

Programming and Scripting Languages

Proficient at: PYTHON, C++, C, PASCAL Familiar with: ASSEMBLY 8086, MATLAB

Operating System

Mac OSX, Windows, Linux

Tools and Frameworks

Learning Tools: TensorFlow, Numpy, Keras, OpenCV, Scikit-Learn

NLP Tools: VOWPAL WABBIT, OPENNMT

Web Application Tools: BeautifulSoup, Selenium, Scrapy, Twint

System Tools: PTHREADS, NACHOS

Data Mining Tools: SPSS Modeler (Clementine)

Hardware Tools: XILINX ISE, AVR STUDIO, CODE VISION AVR, LOGISIM

Presentation Tools: MS Office, Mac Presentation Tools, LATEX, Adobe Photoshop

ACADEMIC PROJECTS

• B.Sc thesis topic

Supervisors: Dr. Nasser Mozayani & Dr. Sauleh Eetemadi

- -Image Captioning using Attention mechanism on translated MSCoCo Dataset, using Tensorflow on Google Colaboratory (working with another B.Sc student
- Machine Learning Lab

Supervisor: Dr. Nasser Mozayani

- -Reducing the convergence time for Deep Q-Learning algorithms with Transfer Learning for ATARI games, using Autoencoder and Variational Autoencoder as State Representation (working in a group of 4 people)
- Data Mining Lab

Supervisor : Dr. Hossein Rahmani

- -Working with a M.S student, crawling twitter using Twint and Python, to gather a dataset for hashtag recommendation
- -Gathering Dataset for Persian language Word Association Norms and analyzing it and publishing the Dataset (working in a group of 4 people)
- -Fraud Detection for German Bank Dataset using SPSS MODELER
- Computational Intelligence Course

Instructor: Dr. Nasser Mozayani

- -Solving Inverted Pendulum problem with Fuzzy Logic and Reinforcement Learning (Q-Learning)
- -Image Recognition with Multi Layer Perceptron for MNIST database using Numpy, Keras

- -Function approximation with MLP (Multi Layer Perceptron) and RBF (Radial Basis Function)
- -Genetic Algorithm for N-Queen problem
- Natural Language Processing Course

- Instructor: Dr. Sauleh Eetemadi
- -Machine Translation for Poetry to Prose and vice versa using OpenNMT
- -Sentiment Analysis (for tweets that have #worldcup) using AFINN
- -Naive Bayes and Maximum Entropy classifiers for speeches of two famous persian politicians
- Artificial Intelligence & Expert Systems Course Instructor: Dr. Behrouz Minaei-Bidgoli -Face Recognition for LFW (Labeled Face in the Wild) dataset using OpenCV
- Advanced Computer Programming Course Instructor: Dr. Adel Torkaman Rahmani
 - -Prototype of Social Network Website with comment, like, and post abilities
 - -Web Scraper and Search Engine using SCRAPY
 - -File Manager with python

CERTIFICATES & ONLINE COURSE

• Reinforcement Learning Course

Summer 2016

Introducing and working with Reinforcement Learning models and taking projects (Learning ATARI games) at Iran University of Science & Technology

• Deep Learning Course

Fall 2018

Doing Three projects (Multi Layer Perceptron, Convolutional Networks, RNN) with TensorFlow and working on multi-GPU servers at Sharif University of Technology

• Sequence Models
Instructed by Andrew Ng (deeplearning.ai) on coursera

Spring 2018

SELECTED ACADEMIC COURSES

Natural Language Processing	A^+	Computational Intelligence	A
Artificial Intelligence and Expert Systems	A^+	Discrete Mathematics	A
Analysis and Design of Algorithms	A	Signals & Systems	A
Operating Systems	A^+	Theory of Languages and Automata	A
Data Structure	A	Advanced Computer Programming	Α

LANGUAGE SKILLS

Persian mother tongue

English Toefl Overall Score: 106

GRE Quantitative: 168

REFERENCES

Prof. Hossein Rahmani

Iran University of Science & Technology h_rahmani@iust.ac.ir

Prof. Nasser Mozayani

Iran University of Science & Technology mozayani@iust.ac.ir

Prof. Ahmad Patooghy

University of Central Arkansas apatooghy@uca.edu

Prof. Ahmad Akbari

Iran University of Science & Technology akbari@iust.ac.ir

Prof. Sauleh Eetemadi

Iran University of Science & Technology sauleh@iust.ac.ir

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