

NIMA GOZALPOUR

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Location:
Tehran, Iran

PROFILE STATEMENT

Graduate of bachelor's degree in Electronic Engineering and three and a half years of academic experience in the field of Artificial Intelligence. Greatly passionate to apply state-of-the-art technology to real-life and academic problems. Skilled in **Neural Networks, Deep Learning, Computer Vision, Machine Learning**, and **Evolutionary Algorithms**. Currently, I am working on the enhancement of **Reinforcement Learning** in terms of speed by utilizing Deep Learning techniques.

EDUCATION

B.Sc.

K.N. Toosi. University of Technology, Tehran, Iran	Sept. 2012 – Jan. 2018
Electronic Engineering	GPA: 15.45/20 (3.18/4)
Thesis: "Stock Market Price Forecasting by Intelligent Systems"	
Supervisor: Prof. M. Teshnehlab	

Pre-University

Allame Amini High school, Tehran, Iran	Sept. 2011 - June 2012
Mathematics and Physics	GPA: 18.63/20.00

High School Diploma

Allame Amini High school, Tehran, Iran	Sept. 2008 - June 2011
Mathematics and Physics	GPA: 18.70/20.00

HONORS AND AWARDS

Ranked 1313

In the nationwide universities entrance exam among more than 260000 participants in Iran	Sept. 2012
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RESEARCH EXPERIENCE

Research Assistant in Systems and Networks Lab, K.N. Toosi University of Technology
Supervisor: Prof. A. Ghasemi July 2018 – Apr. 2019
Forming networks using PSO, GA and TLBO evolutionary algorithms with respect to the network algebraic connectivity (Fiedler value).

Research Assistant in Intelligent Systems Lab, K.N. Toosi University of Technology
Supervisor: Prof. M. Teshnelab Feb. 2017 - Mar. 2018
Working on various problems with deep neural network and evolutionary algorithms approach.

Research Assistant in Computer Architecture Lab, Tehran University
Supervisor: Prof. O. Fatemi Feb. 2016 - Sept. 2016
Working on implementation of Analog and digital parts of a heart pressure monitor device.

TEACHING EXPERIENCE

K.N. Toosi University of Technology, Tehran, Iran

Teaching Assistant

- Neural Networks Fall 2017, Instructor: Prof. M. Teshnelab
- Computer Architecture Spring 2017 Instructor: Prof. M. Dehyadegari
- Fundamental of Computer Programming
Spring 2016, Spring 2017, Spring 2018, Spring 2019 Instructor: Prof. C. Dadkhah

Amirkabir University of Technology, Tehran, Iran

Lecturer, Speech Processing Research Lab

- Introduction to Deep Neural Networks Workshop Summer 2018

PUBLICATIONS

- ✦ **Nima Gozalpour**, Mohammad Teshnelab, "Forecasting Stock Market Price Using Deep Neural Networks". 7th Iranian Joint Congress on Fuzzy and Intelligent Systems (CFIS), Iran, 2019.
- ✦ Mohammadreza Abolghasemi, **Nima Gozalpour**, Amirhossein Nikoofard, Abdorasoul Ghasemi, "Interdependent Network Formation Game Using TLBO Algorithm". 27th Iranian Conference on Electrical Engineering (ICEE), Iran, 2019.

ACADEMIC PROJECTS

Malaria Detection

Classification of infected and uninfected cell images with convolutional neural network and various classifiers, 2019.

AI Plays Ping-Pong

2D ping-pong game in python that the racket is controlled by a neural network in which a genetic algorithm optimizes the weights of the neural network, 2018.

Cracking CAPTCHA Images

Cracking CAPTCHA images of the main Iranian bank and a mobile operator with histogram, morphology filters and softmax classifier, 2018.

Creating a Data Set for CAPTCHA Images

A Google extension for saving a particular image of a web-page and reloading it for several times to achieve various CAPTCHA Images, 2018.

Number Recognition

Classification of MNIST data set with auto-encoder and softmax, 2017.

Selected Codes of Projects are available in my [GitHub](#).

RELATED COURSES

K.N. Toosi University of Technology

Fundamental of Computer Programming (18.25/20), Calculus I (17.5/20), Statistics and Probability (16.2/20), Differential Equations (16.5/20), Logic Circuits (18.25/20), Computer Architecture (17.25/20), Digital Systems II embedded systems (15.1/20), Neural Networks (16.75/20), Thesis (19/20)

Coursera

- Machine Learning by Andrew Ng
- Data Science Math Skills by Daniel Egger
- Algorithms, Part I by Robert Sedgewick and Kevin Wayne

LANGUAGES

English: Fluent, IELTS (Overall band score: 7) (R:8 — L:7 — W:5.5 — S:6.5)

Persian: Native Language

Turkish: Native Language

COMPUTER SKILLS

Programming: Python, MATLAB, Java, C

Machine Learning: Tensorflow, Keras, Scikit-learn, NumPy

Web Technologies: HTML, CSS, JavaScript

Document Preparation: LATEX, Microsoft word

REFERENCES

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