NIMA GOZALPOUR

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

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 (Fielder 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

Dr. M. Teshnehlab, Professor
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