Mohammad Doosti Lakhani

Computer Engineering Student

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EDUCATION

University of Guilan
B.Sc in Software Engineering, GPA: 18.63/20

📅 Sep 2015 - May 2019 (Expected)   📍 Rasht, Iran

Ranked 3th in class- Transcript

Malek Ashtar High School
Pre-University Diploma in Mathematics, GPA: 19.60/20

📅 Sep 2014 – May 2015   📍 Karaj, Iran

Malek Ashtar High School
Diploma in Mathematics and Physics Discipline, GPA: 19.50/20

📅 Sep 2011 – May 2014   📍 Karaj, Iran

WORK EXPERIENCES

Matrix Company
Member of Hardware Failure Team

📅 July 2016 – March 2018   📍 Tehran, Iran

I was working on assembling procedure and I and other members detect failures and repair them (Website).

TEACHING ASSISTANT EXPERIENCES

University of Guilan
Computational Intelligence

📅 Sep 2018 – Feb 2019   📍 Rasht, Iran

Instructor: Dr. M. Shakeri

My responsibilities were designing and assessment evolutionary algorithms projects and teaching Python programming language (Class Materials).

University of Guilan
Algorithms Design (2 times)

📅 Sep 2017 – Jul 2018   📍 Rasht, Iran

Instructor: Dr. M. Shakeri

My responsibility was assessment of student assignment.

HONORS AND AWARDS

🏆 **Ranked 3th in class**
Present

🏆 **Full Scholarship, B.Sc, University of Guilan**
Aug 2015

🏆 **Ranked 1st in all years of high school**
2011 - 2015

🏆 **Exceptional Talent of Department of Computer Engineering - University of Guilan**
2015

🏆 **Exceptional Talent of Department of Computer Engineering - Iran University of Science and Technology**
2019

RESEARCH INTERESTS

Deep learning
Evolutionary Algorithms
Digital Image Processing
Computer Vision
Reinforcement Learning

SKILLS

Skill	Level
Python	●●●●●
PyTorch	●●●●●
Git/VCS	●●●●●
Teamwork	●●●●●
Scipy	●●●●
Sklearn	●●●●
MS Office	●●●●
Powershell	●●●●
Windows	●●●●
Linux	●●●●
VHDL	●●●●
Tensorflow	●●●
SQL	●●●
C++	●●
Wolfram	●●
Scala	●

University of Guilan

Advanced Programming TA

📅 Feb 2018 – Jul 2018   📍 Rasht, Iran

Instructor: Dr. S. A. Mirroshandel
My responsibilities were as follow :

- Teaching GUI design, object-oriented and socket programming using java.
- Designing assignments.
- Assessment of student assignments.

COMMUNITY

School of AI - Rasht Chapter

Lecturer at School of AI

📅 Oct 2018   📍 Rasht, Iran

I usually give lecture for student from different field of studies. I gave a lecture in last meet up and I scheduled other lectures for coming meetings.
The materials of these meetings can be found in here.

B.Sc FINAL PROJECT

"Deep Context-Aware Descreening and Rescreening of Halftone Images" Implementation

Tae-hoon Kim and Sang Il Park. 2018. ACM Trans. DOI.

Supervisors**:**

- **Dr. Mahdi Aminian - University Of Guilan (Homepage)**
- **Dr. Vahid Babaei - Max Planck Institute for Informatics (Homepage)**

You can access different parts of implementations of this paper using below repositories:

- github.com/Nikronic/Places365-Preprocessing
- github.com/Nikronic/Halftone-Algorithms
- github.com/Nikronic/CoarseNet - UNet (arxiv)
- github.com/Nikronic/ObjectNet - PSPNet (arxiv)
- github.com/Nikronic/EdgeNet
- github.com/Nikronic/DetailsNet

📅 In progress

CERTIFICATES

Deep Learning Specialization

Coursera, by Andrew Ng

Deep Learning Specialization consists of five different courses:

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter tuning Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

📅 In progress

LANGUAGES

Persian (Native)
●●●●●

English
●●●●○

HOBBIES

Learning Cultures   Gaming   Music

REFERENCES

Dr. Mojtaba Shakeri
@ mojtaba_shakeri@SIMTech.a-star.edu.sg
📞 (65) 6501 1800

Dr. Mahdi Aminian
@ mahdi.aminian@guilan.ac.ir

Dr. Seyed Abolghasem Mirroshandel
@ mirroshandel@guilan.ac.ir

Machine Learning Course
Coursera, by Andrew Ng
📅 Nov 2018

Natural Language Processing
Coursera, by Higher School of Economics
📅 Aug 2018

Deep Learning Summer School 2018
University of Tehran
📅 Aug 2018

SELECTED ACCOMPLISHED PROJECTS

- **Optimized Multi-Depot Vehicle Routing Problem**: The main idea of paper is to assign customers to specific depots and also assigning them an optimal route with respect to some constraints. We modified the proposed genetics method in reference paper and we have got better results. (Repo)

- **Clustering Algorithms Based on Fuzzy Systems & Cohort Intelligence**: In this study, we are trying to apply fuzzy systems to optimize hyperparameters of problem. The main idea of paper is to cluster data based on Cohort Intelligence (Genetics) and K-means clustering. (currently suspended)

- **Coursera Machine Learning Course by Stanford Implementation using Python from scratch**: In this project, I implemented all assignments in vectorized form using only Numpy library (Repo).

- **Apply Different Machine Learning Models using SKlearn**: I used SKlearn to fit different machine learning models on different tasks and showed the its usages (Repo).

- **News Classification**: Final project of Natural language processing course by University of Guilan (Repo).

- **Music Recommender**: Implemented with Python and it was the final project of Artificial Intelligence course.