

Mohammadmahdi Abdollahpour

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🔗 LinkedIn

DOB: Jul 24, 1998

Research Interests

- Deep Learning
- Adversarial Machine Learning
- Natural Language Processing
- Machine Learning and privacy

Education

2016–present **Amirkabir University of Technology, Tehran**, Bachelor of Computer Engineering,

GPA: 19.39/20

GPA: 4/4

for 105 units until now .

2012–2016 **Nokhbegan High School, Qom**, *Diploma in Physics and Mathematics Discipline*, GPA: 19.7/20, .

Research and Work Experiences

Jul 2019 – **Research Intern in Adversarial Machine Learning**, AT NATIONAL UNIVERSITY OF SINGAPORE, Singapore, On Adversarial Machine Learning.

Developing a plugin to obfuscate images to enhance privacy. performing adversarial attack on face recognition by using projected gradient descent with momentum on faces in latent space.

Jun 2018 – **Research and Development Intern in NLP** , *Tehran*, AT DIAALOG, Diaalog Page.

Dec 2018 Developing Persian Question Answering System

Teaching Assistantships

Feb 2019 – **Artificial Intelligence and Applications**, *under supervision of* DR. NICKABADI, Amirkabir University of Technology.

Sep 2018 – **Linear Algebra**, *under supervision of* DR.NAZERFARD, Amirkabir University of Technology.

Sep 2018 – **Advanced Programing**, *under supervision of* DR.KALBASI, Amirkabir University of Technology.

Feb 2018 – **Advanced Programing**, *under supervision of* DR.NOORHOSEINI, Amirkabir University of Technology.

Honors

Oct 2019 **Honored as the Outstanding Student and Achieved 1st place among 2016-beginner under-graduate students in Computer Engineering major** , AMIRKABIR UNIVERSITY OF TECHNOLOGY, Tehran, Iran.

Oct 2018 **Honored as the Outstanding Student and Achieved 1st place among 2016-beginner under-graduate students in Computer Engineering major** , AMIRKABIR UNIVERSITY OF TECHNOLOGY, Tehran, Iran.

- Oct 2017 **Honored as the Outstanding Student and Achieved 1st place among 2016-beginner under-graduate students in Computer Engineering major** , AMIRKABIR UNIVERSITY OF TECHNOLOGY, Tehran, Iran.
- Aug 2016 **Achieved top 0.4% place among all applicants for the University Entrance Nationwide Exam**, IRAN, Approximately 170000 applicants in Math. and Eng.

Presentations

- 2019 **How to use NLP techniques to build a chatbot** , AMIRKABIR UNIVERSITY OF TECHNOLOGY, In Persian, Research Methods Course.
Link
- 2018 **Ethical Analysis of Messengers as an Engineering product** , AMIRKABIR UNIVERSITY OF TECHNOLOGY, In Persian, Engineering Ethics Course.
Link

Notable Projects

Persian NLP Toolbox for CEIT NLP LAB, AMIRKABIR UNIVERSITY OF TECHNOLOGY, under supervision Dr. Momtazi, Developing Part Of Speech (POS) tagging, Named Entity Recognition (NER), Text normalization,... models for Persian text.

Source code of this project is private.

Neural Dialogue System, DIALOG COMPANY, Using Encoder-Decoder Architecture and LSTM units.

Repo-link

QA by Clustering Methods , AMIRKABIR UNIVERSITY OF TECHNOLOGY, Using clustering methods to develop a QA system.

Repo-link

Notable Course Projects

RBF-ES, AMIRKABIR UNIVERSITY OF TECHNOLOGY, Training Radial Basis Function network using Evolutionary Strategy, Computational Intelligence Course Project.

Repo-link

Detecting community structure , AMIRKABIR UNIVERSITY OF TECHNOLOGY, Using label propagation and weighted coherent neighborhood propinquity, Algorithm Design course project.

Repo-Link

Defining and identifying Communities in Networks, AMIRKABIR UNIVERSITY OF TECHNOLOGY, A divisive algorithm that requires the consideration of local quantities for identifying Communities, Data Structures course project.

Repo-Link

Relevant Undergrad Courses

CS:

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| - Statistical Machine Learning (Master Course)(TBA) | - Information Retrieval(TBA) |
| - Data mining(TBA) | - Programming Languages(TBA) |
| - Principles of Computational Intelligence (20/20) | - Principles and Applications of Artificial Intelligence (20/20) |

- Algorithm Design (20/20)
- Advanced Computer Programming (20/20)
- Signals and Systems(19.25/20)
- Data Structures and Algorithms (20/20)
- Principles of Computer Programming (20/20)

Math:

- Applied Linear Algebra (20/20)
- Discrete Mathematics (18.5/20)
- Calculus 2 (19.5/20)
- Engineering Statistics (19.55/20)
- Calculus 1 (19.5/20)
- Differential Equations (20/20)

Other:

- Research and Technical Presentation(17.6/20)
- Technical English (19/20)
- English for students of Engineering (19.25/20)

Online Courses

- Machine Learning(on Coursera)
- Algorithm Design and Analysis 1
- Stochastic Processes(on Coursera)
- CS224n: Natural Language Processing with Deep Learning
- Algorithm Design and Analysis 2

Skills & Abilities

Programming Languages (Skilled) PYTHON, JAVA

Programming Languages (Familiar) MATLAB, C++, JAVASCRIPT

Frameworks and Tools TENSORFLOW, NUMPY, PANDAS

Languages

Persian **Native Speaker**
English **Proficient**

References

Prof. Saeedeh Momtazi
Assistant Professor
Department of Computer Engineering and Information Technology
Amirkabir University of Technology
Email: momtazi@aut.ac.ir

Prof. Reza Shokri
Assistant Professor
School of Computing
National University of Singapore
Email: shokri@comp.nus.edu.sg

more references available on request