

Alireza GhaffarTehrani | Curriculum Vitae

Tehran Polytechnic (Amirkabir University of Technology)

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RESEARCH INTERESTS

- Data Science
- AI Security
- Machine Learning
- Natural Language Processing
- Computer Vision

EDUCATION

- **Bachelor of Science** 2017–Present
🌐 *Tehran Polytechnic (Amirkabir University of Technology)* *Tehran, IRAN*
 - Computer Engineering
 - Major: Artificial Intelligence and Computer Network
 - GPA: 17.49/20 (3.74/4)

HONORS

- **Ranked in the top 5% among 200 students** in Computer Engineering, AI field, 2021, Tehran Polytechnic
- **Honored as an outstanding Mathematics instructor**, 2020, Ministry of Education and Training, Tehran
- **Entrance exam exempted for a Master degree program in Computer Engineering** as honors student, 2020, Tehran Polytechnic
- **Ranked as the top 3% among around 138,000 participant** in the nationwide university entrance exam, Summer 2017

WORK EXPERIENCE

- 🏛 *Ministry of Education and Training Tehran* 2010–Present
High School Instructor in: *Tehran, IRAN*
 - Mathematics
 - Physics
 - Chemistry













LANGUAGE SKILLS

- Persian Native
- English Fluent
 - IELTS Test (December 6th, 2021) Overall: 7
 - Listening: 7
 - Reading: 6.5
 - Speaking: 7
 - Writing: 6.5
 - Duolingo Test (November 26, 2021) Overall: 125
 - Literacy: 120
 - Comprehension: 130
 - Conversation: 125
 - Production: 105

PROJECTS

- Adversarial Robustness of Online Image Streaming
 - Defence against adversarial attacks on DNNs
 - Optimization
- Chat-bot Implementation for Airline's Online Booking using NLP Methods in Persian Language
- Hand Written Digit Recognition using MNIST database
 - Implementing a fully-connected neural network with two hidden layers without using python libraries
- Fuzzy Clustering with FCM Method
 - Clustering multi-dimensional datasets using fuzzy C-means clustering
- Evolutionary Game Implementation
 - Programming an agent for a simple 2D minigame to maneuver by the help of neural networks' evolution
- Online Store Implementation
 - Frontend and backend development using HTML, CSS, and JS
- Non-linear Regression
 - Regression of any given n-dimensional dataset with the LS method

Courses

○  Computational Intelligence	Grade: 18/20 (4/4)
○  Applied Linear Algebra	Grade: 20/20 (4/4)
○  Discrete Mathematics	Grade: 18/20 (4/4)
○  Engineering Statistics	Grade: 18/20 (4/4)
○  Web Programming	Grade: 16/20 (4/4)
○  Theory of Machines and Languages	Grade: 17.94 (4/4)
○  Signals and Systems	Grade: 17/20 (4/4)
○  Electrical and Electronic Circuits	Grade: 17.86 (4/4)
○  Logic Circuits and Lab	Grade: 17/20 (4/4)
○  Technical English	Grade: 17/20 (4/4)
○  Physics	Grade: 20/20 (4/4)
○  Mathematics	Grade: 17/20 (4/4)

COMPUTER SKILLS





Programming/Scripting

- Python
 - TensorFlow
 - NumPy
 - Matplotlib
 - Pandas
 - Scikit-Learn
- MySQL
- PostgreSQL
- C
- JavaScript
- HTML5/CSS3
- L^AT_EX

IDEs/Tools

- VSCode
- PyCharm
- IntelliJ
- MATLAB

TEACHING ASSISTANT

○  Algorithm Design	Fall 2021
- Supervisor: Dr.Alireza Bagheri	
○  Microprocessor and Assembly Language	Fall 2021
- Supervisor: Dr.Hamed Farbeh	
○  Logic Circuits	Winter 2020
- Supervisor: Dr.Morteza Saheb Zamani	
○  Logic Circuits	Fall 2019
- Supervisor: Dr. Mehdi Sedighi	

REFERENCES

- Ehsan Nazerfard, Assistant Professor
 - Member of Artificial Intelligence and Robotics Group, CE, AUT
 - Email: nazerfard@aut.ac.ir
 - Phone: 0098 21 64542707
- Morteza Saheb Zamani, Professor
 - Member of Computer Networks and Architecture Group, CE, AUT
 - Email: szamani@aut.ac.ir
 - Phone: 0098 21 64542720
- Alireza Bagheri, Associate Professor
 - Member of Software Group, CE, AUT
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- Behzad Najafi Saghezchi, Assistant Professor
 - Member of Pure Mathematics Group, CS, AUT
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Dec. 9th, 2021

Alireza Ghaffartehrani