

# Alireza GhaffarTehrani | Curriculum Vitae

Tehran Polytechnic (Amirkabir University of Technology)

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## RESEARCH INTERESTS

- Data Science
- Machine Learning (ML)
- Natural Language Processing (NLP)
- Computer Vision (CV)
- AI Security

## 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 among top 10** 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 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 appointment Nov 15th, 2021













## PROJECTS

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- Adversarial Robustness of Online Image Streaming [In Progress]
  - Defence against adversarial attacks on DNNs
  - Optimization
- Chat-bot Implementation for Airline's Online Booking using NLP Methods in Persian Language [In Progress]
- 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

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- |  |                    |
|--|--------------------|
| ○  Computational Intelligence           | 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) |
| ○  Applied Linear Algebra              | Grade: 20/20 (4/4) |
| ○  Electrical and Electronic Circuits | Grade: 17.86 (4/4) |
| ○  Logic Circuits and Lab             | Grade: 17/20 (4/4) |
| ○  Engineering Statistics             | Grade: 18/20 (4/4) |
| ○  Technical English                  | Grade: 17/20 (4/4) |
| ○  Discrete Mathematics               | Grade: 18/20 (4/4) |
| ○  Physics                            | Grade: 20/20 (4/4) |
| ○  Mathematics                        | Grade: 17/20 (4/4) |

## COMPUTER SKILLS

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### Programming/Scripting





- |                |                                   |
|----------------|-----------------------------------|
| ○ Python       | ○ MySQL                           |
| - TensorFlow   | ○ PostgreSQL                      |
| - NumPy        | ○ C                               |
| - Mathplotlib  | ○ JavaScript                      |
| - Pandas       | ○ HTML5/CSS3                      |
| - Scikit-Learn | ○ L <sup>A</sup> T <sub>E</sub> X |

### IDEs/Tools

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|-----------|------------|
| ○ VSCode  | ○ IntelliJ |
| ○ PyCharm | ○ MATLAB   |

## TEACHING ASSISTANT

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- |  |             |
|--|-------------|
| ○  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

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- Ehsan Nazerfard, Assistant Professor
  - Member of Artificial Intelligence and Robotics Group, CE, AUT
  - Email: nazerfard@aut.ac.ir
  - Phone: 0098 21 64542707
- Mehdi Rasti, Associate Professor
  - Member of Computer Networks and Architecture Group, CE, AUT
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- Morteza Saheb Zamani, Professor
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- Alireza Bagheri, Associate Professor
  - Member of Software Group, CE, AUT
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- Mahmoud Momtazpour, Assistant Professor
  - Member of Computer Networks and Architecture Group, CE, AUT
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- Behzad Najafi Saghezchi, Assistant Professor
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Nov. 12<sup>th</sup>, 2021

*Alireza Ghaffartehrani*