Alireza GhaffarTehrani | Curriculum Vitae

Tehran Polytechnic (Amirkabir University of Technology)

📱 (+98) 912 549 8126 • ✉ AlirezaGhafarTehrani@gmail.com
🌐 www.alirezateh.info • in alireza-tehrani-4237861b2 • ⌾ AlirezaGhafartehrani

RESEARCH INTERESTS

- Neuromorphic Computing
- Data Science
- Machine Learning
- AI Security
- 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
  - Duolingo Test (November 26, 2021) Overall: 125
    - Literacy: 120
    - Comprehension: 130
    - Conversation: 125
    - Production: 105
  - IELTS Test appointment Dec 6th, 2021

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 withoud 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
  - Mathplotlib
  - Pandas
  - Scikit-Learn
- MySQL
- PostgreSQL
- C
- JavaScript
- HTML5/CSS3
- LaTeX

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
  - Email: ar_bagheri@aut.ac.ir
  - Phone: 0098 21 64542742

- Behzad Najafi Saghezchi, Assistant Professor
  - Member of Pure Mathematics Group, CS, AUT
  - Email: behzad.najafi@aut.ac.ir
  - Phone: 0098 21 64545669

Nov. 30th, 2021

Alireza Ghaffartehrani