








# Pouria Alimoradpour

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## EDUCATION

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**M.Sc in Artificial Intelligence & Soft Computing (Amirkabir University of Technology)** 2024-2026  
*Direct entrance by "Research-based" method under the supervision of Dr.Ghatee* GPA:  $-\!/20 \simeq -\!/4$   
**B.Sc in Computer Science (Amirkabir University of Technology)** 2020-2024  
*Applied Mathematics entrance and change the academic field to CS after 3 semesters* GPA:  $17.13/20 \simeq 3.62/4$   
**Diploma in Mathematics (Dr. Mosaheb High-school)** 2017-2020  
GPA:  $18.54/20 \simeq 4/4$

## RESEARCH INTERESTS:

**Computer Science:** Computer Vision, Computer Graphics, Image Processing, Robotics, HCI  
Artificial Intelligence, Machine Learning, Data-Science, Graphic Design, UI/UX

**Other Interests:** Music, Art, Sport

## LANGUAGES:

**Persian:** Native

**English:** Advance (IELTS 6.5)

## SKILLS

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**Programming:** Python, C/C++, HTML/CSS/JS, Git, ROS, Webots, Matlab, GAMS, OpenGL, SQL Server, Network+, WM-Ware, Linux

**Others:** ICDL, Microsoft Office, L<sup>A</sup>T<sub>E</sub>X, Markdown, Adobe Illustrator, Adobe PhotoShop, Adobe XD, Adobe InDesign, Figma, Adobe AfterEffects, Corel VideoStudio, Adobe Premiere

## PROJECTS

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**Deep Learning Projects** | *Python (GitHub Link)* Winter 2024

- Neural Networks (Topics in CS) | CourseID: 1218393
- 1- MLP, 2- Auto-Encoder, 3- KAN, 4- GANs
- Knowledge: Tensor, Back-propagation, Latent space, Kolmogorov-Arnold Theorem, B-Splines, Generator and Discriminator, etc.

**Bot-Ross Robot** | *Python/C (GitHub Link)* Fall 2023

- Introduction to Robotics | CourseID: 2356193
- A cable-driven parallel robot that has the ability to draw.
- Knowledge: Graph, Image Processing, Robotics, System Control, Electronics

**Hyper-parameters Tuning of Deep Unfolding Networks for Image Enhancement** Summer 2023

- Bachelor's Project (Supervisor: Dr. Shakeri) | *Python (GitHub Link)* | CourseID: 1227510
- Deep Unfolding Networks in different image processing tasks
- Knowledge: Model-based and Variational-based Methods in Image Enhancement, Iterative Optimization

**Monopoly + AI Agent** | *Python (GitHub Link)* Winter 2022

- Artificial Intelligence and Workshop | CourseID: 1319104
- Monopoly game, 2-4 Players with dynamic number of AI-Agents
- Knowledge: ExpectiMiniMax Algorithm, Adversarial Search, Backtracking, ...

**Uniland bot** | *Python (GitHub Link)* Fall 2022

- Software Engineering and Workshop | CourseID: 1380044
- A highly modular and diverse Telegram Bot for universities and institutions.
- Knowledge: Teamwork, UX-Design, API, Inverted Index, Git and Clean Code

**Other** | *More projects (Databases, Image Processing, Data Science, etc.) available on GitHub* Winter 2024 and before

## EXPERIENCE

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### Graphic Designer | *(Full Informations on LinkedIn)*

Feb 2021 – Present

- Self-employed: UI/UX, Logo, Poster, Banner, Headers, Story motions, Illustrations, Covers.
- Graphic team leader at CWS
- Motion Graphic Designer at PRS School

### Academic Advisor | *Dr. Mosaheb High-school*

Jun 2021 – Aug 2022

- Supporting students for entrance exam classes
- Designing course contents and consulting catalog

### Achievements | *Academic Honors & Awards*

2009 – 2021

- Top 10 Ranked Students (1st year) (MathCS Faculty)
- Mathematics Silver medal in the MathHome Grand Prize (2019)
- Physics Bronze medal in the MathHome Grand Prize (2019)
- Mathematics Silver medal in IMC2018 Mathematics Olympiad
- Chess championship at the provincial level (2009)

## VOLUNTEER WORKS

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### Teaching Experience | *TA*

- Data Mining, Dr. Fatemeh Shakeri, Amirkabir University, Winter 2024
- Foundation of Matrix & Linear Algebra, Dr. Ali Mirsalehi, Islamic Azad University, Fall 2021
- Discrete mathematics and Geometry, Dr. Mosaheb H.S., 2020
- Teach and Review Artificial Intelligence and Numerical Linear Algebra, for the group of course students

### Articles Translation and Implementation

- Efficient background subtraction with low-rank and sparse matrix decomposition. (Translated)
- Multi-Level Particle Swarm Optimized Hyper-parameters of Convolutional Neural Network (Implemented)
- Using Artificial Intelligence Techniques in Computer Graphics (Translated)

### Presentations

- **CapsNet**: Capsule Neural Networks, improving CNNs
- **UI/UX**: online webinar on UI/UX design for the Students' Guild Council (MCS SGC)
- **ANN**: Approximate Nearest Neighbor method in Data Mining (KNN Improvement)
- **Hough Transform**: Method to find simple shapes like lines and circles in images
- **Slides Preparing**: Ten stages in preparing your slides

### International Conference Attendance (Event by NORC aut) | *Attending in 15 article topics*

- **DAI-DAY-2024**: Data-mining & Artificial Intelligence Day
- **ICAISV-2023**: International Conference on Artificial Intelligence & Smart Vehicle

## REFERENCES

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- Dr. Behzad Najafi**: Associate Professor at Mathematics and Computer-Science Faculty, AUT  
Supervising Professor at University (B.Sc) behzad.najafi@aut.ac.ir
- Dr. Mehdi Ghattee**: Full Professor at Mathematics and Computer-Science Faculty, AUT  
Supervising Professor at University (M.Sc) ghatee@aut.ac.ir
- Dr. Fatemeh Shakeri**: Assistant Professor at Mathematics and Computer-Science Faculty, AUT  
Bachelor's Project Supervisor f.shakeri@aut.ac.ir
- Dr. Ali Mirsalehi**: Teaching Professor at Management Faculty, Islamic Azad University  
Supervising Professor at High-School a.mirsalehi@iau-tnb.ac.ir

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