








Pouria Alimoradpour

AI Researcher and Graphic Designer. Interested in Art, Music, and Technology

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EDUCATION

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

Other Interests: Music, Art, Sport

LANGUAGES:

Persian: Native

English: Advance (IELTS 6.5)

SKILLS

Programming: Python, C/C++, HTML/CSS, Git, ROS, Matlab, GAMS, SQL Server, Network+, WM-Ware, Linux
Libraries: Tensorflow, Keras, PyTorch, Pandas, OpenCV, NLTK, Numpy, Scipy, SKLearn, OpenGL
Others: ICDL, Microsoft Office, L^AT_EX, Markdown, Adobe Illustrator, Adobe PhotoShop, Adobe XD, Adobe InDesign, Figma, Adobe AfterEffects, Corel VideoStudio, Adobe Premiere

PROJECTS

NLP | Python (GitHub Link) Winter 2025

- Natural Language Processing
- 1- N-Gram for Shahnameh Ferdosi, 2- Naive Bayes for Sentiment Analysis
- Knowledge: LLMs, Naive Bayes, N-Grams, Transformers-RNN-LSTM, etc.

Deep Learning Projects | Python (GitHub Link) Winter 2024

- Neural Networks (Topics in CS)
- 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
- A cable-driven parallel robot that has the ability to draw.
- Knowledge: Graph, Image Processing, Robotics, System Control, Electronics

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

- Artificial Intelligence and Workshop
- 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
- 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 available on GitHub (App UI/UX, Databases, Image Processing, Data Science, etc.) Link

EXPERIENCE

AI Researcher | *NORC AUT*

Oct 2024 – Present

- Doing research on AI topics under supervision of Dr. Mahdi Ghatée.
- Design Anomaly Detection application (Halley) UI/UX

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 Varsaz
- 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

VOLUNTEER WORKS

Teaching Experience | *TA*

- Artificial Intelligence, Dr. Mahdi Ghatée, Amirkabir University, Fall 2024 + Winter 2025
- Programming Languages, Dr. M. Hassan Hassan Shirali-Shahreza, Amirkabir University, Winter 2025
- Human Computer Interaction, Dr. M. Hassan Hassan Shirali-Shahreza, Amirkabir University, Fall 2024
- Principles of Software Design and Workshop, Dr. Zahra Ghorbanali, Amirkabir University, Fall 2024
- Data Mining, Dr. Fatemeh Shakeri, Amirkabir University, Winter 2024
- Foundation of Matrix & Linear Algebra, Dr. Ali Mirsalehi, Islamic Azad University, Fall 2021

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 +20 article topics*

- **DAI-DAY-2024 and 2025**: Data-mining & Artificial Intelligence Day
- **ICAISV-2023**: International Conference on Artificial Intelligence & Smart Vehicle

REFERENCES

- 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 Ghatée**: 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
- Dr. M. Hassan Shirali-Shahreza**: Assistant Professor at Mathematics and Computer-Science Faculty, AUT
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