



# POURIA

## ALIMORADPOUR

### CONTACT INFO

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### ABOUT ME

- Artificial Intelligence (AI) Student
- Creative, Hard working and Punctual
- Graphic Designer
- Interested in Art, Music, and Technology

### EDUCATION

<b>M.Sc in Artificial Intelligence and Soft Computing (Computer Science)</b> <i>Amirkabir University of Technology (AUT)   Tehran, Iran</i> (Tehran Polytechnic)	2024-2026 (Expected)
<ul style="list-style-type: none"><li>• GPA: - / 20 <math>\simeq</math> - / 4</li><li>• Direct entrance by "Research-based" method under the supervision of <a href="#">Dr. Ghatee</a></li></ul>	
<b>B.Sc in Computer Science</b> <i>Amirkabir University of Technology (AUT)   Tehran, Iran</i> (Tehran Polytechnic)	2020-2024
<ul style="list-style-type: none"><li>• GPA: 17.13 / 20 <math>\simeq</math> 3.62 / 4</li><li>• Applied Mathematics entrance and change the academic field to CS after 3 semesters having grade "A" (&gt;17)</li></ul>	
<b>Diploma in Mathematics</b> <i>Dr. Mosaheb High-school   Tehran, Iran</i>	2017-2020
<ul style="list-style-type: none"><li>• GPA: 18.54 / 20 <math>\simeq</math> 4 / 4</li></ul>	

### INTERESTS

Computer Science	<ul style="list-style-type: none"><li>• Artificial Intelligence, Machine Learning, HCI, Robotics</li><li>• Computer Vision, Computer Graphics, Data-Science</li></ul>
Art	<ul style="list-style-type: none"><li>• Graphic Design, UI/UX, Drawing, Music, Piano</li></ul>
Others...	<ul style="list-style-type: none"><li>• Chess, Football &amp; Fitness, KungFu Toa</li></ul>

## PROJECTS

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### Natural Language Processing ([GitHub Link](#))

Winter 2025

*Natural Language Processing* | CourseID: 1387843

(Python)

- 1- N-Gram for Shahnameh Ferdosi, 2- Naive Bayes for Sentiment Analysis
- Knowledge: LLMs, Naive Bayes, N-Grams, Transformers-RNN-LSTM, etc.
- Libraries: Numpy, Pandas, Hazm.

### Election App ([Figma Link](#))

Fall 2024

*Human Computer Interaction* | CourseID: 1384243

(Figma)

- Designing an election and voting app for IOS
- Knowledge: User Interface, User Experience, Apple UI kit, Userflow, etc.

### Deep Learning Projects ([GitHub Link](#))

Winter 2024

*Neural Networks (Topics in CS)* | CourseID: 1218393

(Python)

- 1- MLP, 2- Auto-Encoder, 3- KAN, 4- GANs
- Knowledge: Tensor, Back-propagation, Latent space, Kolmogorov-Arnold Theorem, B-Splines, Generator and Discriminator, etc.
- Libraries: pytorch.

### Online-Shop Database ([GitHub Link](#))

Winter 2024

*Database* | CourseID: 1218333

(SQL, Python)

- Design Database (DB) for an online shop
- Knowledge: Relational Algebra, Functional Dependency, ERD, Normalization
- Libraries: pyodbc, faker, requests, BeautifulSoup, etc.

### Bot-Ross Robot ([GitHub Link](#))

Fall 2023

*Introduction to Robotics* | CourseID: 2356193

(Python, C)

- A cable-driven parallel robot that has the ability to draw.
- Knowledge: Graph, Image Processing, Robotics, System Control, Electronics
- Libraries: numpy, scipy, pySerialTransfer, openCV, pillow, etc.

### Hyperparameters Tuning of Deep Unfolding Networks for Image Enhancement ([GitHub Link](#))

Summer 2023

*Bachelor's Project* | CourseID: 1227510

(Python)

- Deep Unfolding Networks in different image processing tasks
- Knowledge: Model-based and Variational-based Methods in Image Enhancement, Iterative Optimization Supervisor: [Dr. Fatemeh Shakeri](#)

### Data-Analysis ([GitHub Link](#))

Winter 2022

+ Fall 2024

*Data Mining + Computational Data Mining* | CourseID: 1218633 + 1384653

(Python)

- Classify and Cluster some datasets using different methods.
- Knowledge: SVD, KNN, K-Means, DBSCAN, Decision-Tree, and CNN
- Libraries: pandas, numpy, scipy, sklearn, seaborn, tensorflow, keras, etc.

**Monopoly + AI Agent ([GitHub Link](#))**

Winter 2022

*Artificial Intelligence and Workshop* | CourseID: 1319104

(Python)

- Monopoly game, 2-4 Players with dynamic number of AI-Agents
- Knowledge: ExpectiMiniMax Algorithm, Adversarial Search, Backtracking, ...
- Libraries: pandas, numpy, deepcopy, etc.

**Sudoku ([GitHub Link](#))**

Winter 2022

*Computer Graphics* | CourseID: 1218633

(Python)

- Image-Processing for detecting Sudoku table. Also solving a custom-sized Sudoku puzzle using Backtracking and Genetic algorithms (Forked from teammate).
- Knowledge: Computer-Vision, Image Processing, ANN, Convolutional Neural Networks and Computer-Graphics
- Libraries: matplotlib, sklearn, seaborn, tensorflow, keras, OpenCV, etc.

**Kitchy - Fast Healthy Food ([Figma Link](#))**

Winter 2022

*Entrepreneurship* | CourseID: 1236322

(Figma, HTML/CSS)

- Small Startup Site for selling food and packages. This is the effort of a group of five students at AUT as the final project.
- Knowledge: UI/UX, Teamwork, Successful Startups, Lean-Canvas, Proposal...

**Operating-Systems ([GitHub Link](#))**

Winter 2022

*Principles of Operating Systems* | CourseID: 1218364

(C,C++)

- FCFS Algorithm by 2 threads, Round Robin Algorithm by 2 threads, Parallel matrix multiplication server, Grep command for searching
- Knowledge: Semaphor, Workers, Mutex, Threads, and Processes
- Libraries: <iomanip>, <algorithm>, <thread>, <pthread.h>, etc.

**Uniland bot ([GitHub Link](#))**

Fall 2022

*Software Engineering and Workshop* | CourseID: 1380044

(Python)

- A highly modular and diverse Telegram Bot for universities and institutions. This is the effort of a group of eight CS students at AUT as the final project.
- Knowledge: Teamwork, UX-Design, API, Inverted Index, Git and Clean Code
- Libraries: pyrogram, SQLAlchemy, and uvloop

**Cydonia Game ([Website Link](#))**

Fall 2022

*Blazed Helix Studio* | instagram: blazed\_helix

(Adobe Illustrator, PhotoShop)

- Designing Cydonia Game objects
- Game Menu, Game Cover, Bullets, Battery, Medkit, Pills, Sliders, etc.
- Knowledge: Adobe, Unreal Engine, and Game-Graphics

**Graph-Repair ([GitHub Link](#))**

Fall 2021

*Data Structures & Algorithms* | CourseID: 1218304

(C++)

- Repairing custom graph by getting Node names in C++.
- Knowledge: Graph, DS, DFS and BFS, Files in System and IO
- Libraries: <algorithm>, <fstream>, <exception>, etc.

**Task-Manager ([GitHub Link](#))**

Winter 2021

**Advanced Programming** | CourseID: 1319143

(C++)

- Task Manager Application using OOP (Object Oriented Programming) in C++
- Knowledge: OOP, AP, Singleton, Handling Exceptions, Files in System and IO
- Libraries: <iomanip>, <ctime>, <exception>, etc.

**Ball-Paddle Game ([GitHub Link](#))**

Summer 2020

(Small Basic/ Visual Basic)

- First step to programming
- Two player game with GUI

## EXPERIENCE

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**Artificial Intelligence Researcher**

Oct 2024-Present

**NORCAUT** | Tehran, Iran

- Doing research on AI topics under supervision of Dr. Mahdi Ghatee.
- Research topics: AI, ML, NLP, Computer Vision
- Design Anomaly Detection application (Halley) UI/UX

**Graphic team leader**

Sep 2024-Present

**Varsaz Co.** | Tehran, Iran

- Studio Sotoun graphic tem leader
- Design materials for HR Analytics event, Amirkabir Jobfair, and etc.
- Design application UI/UX for Iran Textile Co.

**Graphic Designer**

Feb 2021-Present

**Self-employed** | Tehran, Iran

- UI/UX, Logo, Poster, Banner, Headers, Story motions, Illustrations
- for: Pardis Apolo, Kavosh Karan Golestan, Gaba, Dr. Mirsalehi, Halqeh Journal, TEDx AUT, etc.

**Graphic team leader**

Sep 2021-Nov 2022

**CWS 2022** | Tehran, Iran(2<sup>nd</sup> Series)

- Creating Logo-motion, Posters, Banners, YouTube-Videos, UI
- leading a team of five graphic designers
- Content team member (2<sup>nd</sup> Series) and Marketing team member (1<sup>st</sup> Series)

**Academic Advisor**

Jun 2021 - Aug 2022

**Dr. Mosaheb High-school** | Tehran, Iran

(Academic consulting team of Dr. Ali Mirsalehi)

- Teaching Assistant in Geometry, Calculus, Linear Algebra, Discrete mathematics
- Supporting students for entrance exam classes
- Designing course content and consulting catalog

**Motion Graphic Designer**

Jul 2021 - Sep 2021

**PRS School** | Tehran, Iran

(And PowerPoint team leader)

- Creating Educational Content with animations
- Leading and teaching content team (20 students)

## SKILLS

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Languages

- Persian (Native)
- English (Advance)

IELTS 6.5

- Computer Science

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Python, C/C++, HTML/CSS, Git, ROS, Webots

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Matlab, GAMS, SQL server, Maple, Rapid-Miner

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OpenGL, Rust, JS, Network+

- Operating Systems and Websites

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Github, Overleaf, Google-Colab, Replit

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Windows, Linux, WM-Ware

- Graphic Design

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Adobe Illustrator, Adobe PhotoShop, Adobe XD, Adobe InDesign, Figma

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Adobe AfterEffects, Corel VideoStudio, Adobe Premiere

- Others

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ICDL, Microsoft Office,  $\text{\LaTeX}$ , Markdown

## VOLUNTEER WORKS

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### - International Conference Attendance

DAI-DAY-2025	• Data-mining & Artificial Intelligence Day (Event by <a href="#">NORC aut</a> )
	• Attend in 8 article topics
ATC (2nd)	• Algotricmic Trade Challenge
	• Design closing day posters
	• Attending closing day confrences
DAI-DAY-2024	• Data-mining & Artificial Intelligence Day (Event by <a href="#">NORC aut</a> )
	• Design Article Posters for Conference participants
	• Attend in 5 article topics
ICAISV-2023	• International Conference on Artificial Intelligence & Smart Vehicle
	• Event by <a href="#">NORC aut</a>
	• Attend in 10 article topics

### - Articles Translation and Implementation

KAN	• Kolmogorov-Arnold Networks
	• <a href="#">Alternatives to Multi-Layer Perceptrons (MLPs)</a> , inspired by the <a href="#">Kolmogorov-Arnold representation theorem</a> .
	• University Numerical Linear Algebra course (Translated)
Video Processing	• Low rank and sparse matrix decomposition applications in video processing
	• <a href="#">Efficient background subtraction with low-rank and sparse matrix decomposition</a> .
	• University Numerical Linear Algebra course (Translated)
Hybrid MPSO-CNN	• <a href="#">Multi-Level Particle Swarm Optimized Hyper-parameters of Convolutional Neural Network</a>
	• University Artificial Intelligence course (Implemented in Python)
AI & Computer Graphics	• <a href="#">Using Artificial Intelligence Techniques in Computer Graphics</a>
	• Translate and present in a class by a group of 5 students
	• University Research Method & Report Writings course (Translated)

## - Teaching Experience (TA)

<b>Artificial Intelligence (x2)</b>	<ul style="list-style-type: none"><li>• Dr. Mahdi Ghatee, Amirkabir University, Fall 2024 + Winter 2025</li><li>• As a Head TA, designing project for implementing AI algorithms, marking homeworks</li></ul>
<b>Programming Languages</b>	<ul style="list-style-type: none"><li>• Dr. M. Hassan Hassan Shirali-Shahreza, Amirkabir University, Winter 2025</li><li>• Translating (English to Persian) main source for the course slides</li></ul>
<b>Human Computer Interaction</b>	<ul style="list-style-type: none"><li>• Dr. M. Hassan Hassan Shirali-Shahreza, Amirkabir University, Fall 2024</li><li>• Give students UI UX tips, Marking homeworks and projects</li></ul>
<b>Principles of Software Design and Workshop</b>	<ul style="list-style-type: none"><li>• Dr. Zahra Ghorbanali, Amirkabir University, Fall 2024</li><li>• Give students UI UX tips, Doing Scrum-master role for 2 group projects</li></ul>
<b>Data Mining</b>	<ul style="list-style-type: none"><li>• Dr. Fatemeh Shakeri, Amirkabir University, Winter 2024</li><li>• Preparing course materials with a group of students and teaching them how to layout the materials</li></ul>
<b>TA</b>	<ul style="list-style-type: none"><li>• Foundation of Matrix &amp; Linear Algebra, Dr. Ali Mirsalehi, Islamic Azad University, Fall 2021</li><li>• Discrete mathematics and Geometry, Dr. Mosaheb H.S., 2020</li></ul>
<b>Teach and Review</b>	<ul style="list-style-type: none"><li>• Artificial Intelligence, for the group of course students, Winter 2023</li><li>• Numerical Linear Algebra, for the group of course students, Fall 2022</li></ul>

## - Presentations

<b>CapsNet</b>	<ul style="list-style-type: none"><li>• Capsule Neural Networks, improving CNNs</li><li>• University Neural Networks course</li></ul>
<b>UI/UX</b>	<ul style="list-style-type: none"><li>• Hosted an online webinar on UI/UX design for the Students' Guild Council (MCS SGC) of our Faculty</li></ul>
<b>ANN</b>	<ul style="list-style-type: none"><li>• Approximate Nearest Neighbor method in Data Mining (KNN Improvement)</li><li>• University Data Mining course</li></ul>
<b>Hough Transform</b>	<ul style="list-style-type: none"><li>• Method to find simple shapes like lines and circles in image</li><li>• University Image Processing course</li></ul>
<b>Slides Preparing</b>	<ul style="list-style-type: none"><li>• Ten stages in preparing your slides</li><li>• University Special Language course (In English)</li></ul>

## ACHIEVEMENTS

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<b>Awards</b>	<ul style="list-style-type: none"><li>• Mathematics Silver medal in the <a href="#">MathHome</a> Grand Prize (2019)</li><li>• Physics Bronze medal in the <a href="#">MathHome</a> Grand Prize (2019)</li><li>• Mathematics Silver medal in IMC2018 Mathematics Olympiad</li><li>• Kungfu Toa Anatua, Atado and Soto levels Certificate (2010 - 2012)</li><li>• Chess championship at the provincial level (2009)</li></ul>	
<b>Certificates</b>	<ul style="list-style-type: none"><li>• Top 10 Ranked Students (1st year)</li><li>• Network+, C, HTML CSS, PowerPoint</li><li>• Attend Webinars</li></ul>	<a href="#">MathCS Faculty</a> <a href="#">TopLearn</a> <a href="#">CWS2022</a>
<b>Courses</b>	<ul style="list-style-type: none"><li>• Music+AI (<a href="#">Valerio Velardo</a>)</li><li>• Python, C++, Git and GitHub (<a href="#">Jadi</a>)</li><li>• Figma, GAMS, HTML/CSS</li><li>• Machine Learning</li><li>• Computer Graphics, Adobe XD</li></ul>	<a href="#">Youtube</a> <a href="#">FaraDars</a> <a href="#">SariAsan</a> <a href="#">Educative</a> <a href="#">Maktabkhooneh</a>

## REFERENCES

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|---------------------------------------|--|
| <b>Dr. Mehdi Ghattee</b>              | <ul style="list-style-type: none"><li>- Supervising Professor at University (M.Sc)</li><li>- Full Professor at Mathematics and Computer-Science Faculty</li><li>- Amirkabir University of Technology</li><li>- <a href="mailto:ghatee@aut.ac.ir">ghatee@aut.ac.ir</a></li></ul>                    |
| <b>Dr. Behzad Najafi</b>              | <ul style="list-style-type: none"><li>- Supervising Professor at University (B.Sc)</li><li>- Associate Professor at Mathematics and Computer-Science Faculty</li><li>- Amirkabir University of Technology</li><li>- <a href="mailto:behzad.najafi@aut.ac.ir">behzad.najafi@aut.ac.ir</a></li></ul> |
| <b>Dr. Fatemeh Shakeri</b>            | <ul style="list-style-type: none"><li>- Bachelor's Project Supervisor</li><li>- Assistant Professor at Mathematics and Computer-Science Faculty</li><li>- Amirkabir University of Technology</li><li>- <a href="mailto:f.shakeri@aut.ac.ir">f.shakeri@aut.ac.ir</a></li></ul>                      |
| <b>Dr. Ali Mirsalehi</b>              | <ul style="list-style-type: none"><li>- Supervising Professor at High-School</li><li>- Teaching Professor at Management Faculty</li><li>- Islamic Azad University</li><li>- <a href="mailto:a.mirsalehi@iau-tnb.ac.ir">a.mirsalehi@iau-tnb.ac.ir</a></li></ul>                                     |
| <b>Dr. M. Hassan Shirali-Shahreza</b> | <ul style="list-style-type: none"><li>- Lecturer of the courses that I have been TA</li><li>- Assistant Professor at Mathematics and Computer-Science Faculty</li><li>- Amirkabir University of Technology</li><li>- <a href="mailto:hshirali@aut.ac.ir">hshirali@aut.ac.ir</a></li></ul>          |