



# POURIA

## ALIMORADPOUR

### CONTACT INFO

✉ E-mail	poripouria9@gmail.com	pouriaar4@aut.ac.ir
in LinkedIn	pouria-alimoradpor	
🐙 Github	poripouria	
☎ Phone	(+98)9927268499	
🌐 Website	http://poripouria.github.io	

### ABOUT ME

- Computer Science (CS) Student
- Creative, Hard working and Punctual
- Graphic Designer
- DoB: April 08, 2002

### EDUCATION

<b>M.Sc in Artificial Intelligence and Soft Computing (Computer Science)</b>	2024-2026 (Expected)
<b>Amirkabir University of Technology (AUT)</b>   Tehran, Iran (Tehran Polytechnic)	
<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 <b>Dr. Ghatsee</b></li></ul>	
<b>B.Sc in Computer Science</b>	2020-2024
<b>Amirkabir University of Technology (AUT)</b>   Tehran, Iran (Tehran Polytechnic)	
<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>	2017-2020
<b>Dr. Mosaheb High-school</b>   Tehran, Iran	
<ul style="list-style-type: none"><li>• GPA: 18.54 / 20 <math>\simeq</math> 4 / 4</li></ul>	

### INTERESTS

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

## PROJECTS

---

### 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

*Data Mining* | CourseID: 1218633

(Python)

- Classify and Cluster some datasets using different methods.
- Knowledge: 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](#))**  
*Entrepreneurship* | CourseID: 1236322  
(Figma, HTML/CSS)

Winter 2022

- 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

---

### 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, 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

---

### - Computer Science

- ● ● Python, C/C++, HTML/CSS, Git, ROS, Webots
- ● ○ Matlab, GAMS, SQL server, Maple, Rapid-Miner
- ○ ○ OpenGL, Rust, JS, Network+

### - Operating Systems and Websites

- ● ● Github, Overleaf, Google-Colab, Replit
- ● ○ Windows, Linux, WM-Ware

### - Graphic Design

- ● ● Adobe Illustrator, Adobe PhotoShop, Adobe XD, Adobe InDesign, Figma
- ● ○ Adobe AfterEffects, Corel VideoStudio, Adobe Premiere

### - Others

- ● ● ICDL, Microsoft Office,  $\text{\LaTeX}$ , Markdown
- ○ ○ Android-Studio (Katlin/Java), Docker

### Languages

- Persian (Native)
- English (Advance)

IELTS 6.5

## VOLUNTEER WORKS

---

### - International Conference Attendance

#### DAI-DAY-2024

- Data-mining & Artificial Intelligence Day
- Design Article Posters for Conference participants.
- Attending in 5 article topics

#### ICAISV-2023

- International Conference on Artificial Intelligence & Smart Vehicle
- Event by [NORC aut](#)
- Attending in 10 article topics

### - Articles Translation and Implementation

#### Video Processing

- Low rank and sparse matrix decomposition applications in video processing
- [Efficient background subtraction with low-rank and sparse matrix decomposition.](#)
- University Numerical Linear Algebra course (Translated)

#### Hybrid MPSO-CNN

- [Multi-Level Particle Swarm Optimized Hyper-parameters of Convolutional Neural Network](#)
- University Artificial Intelligence course (Implemented in Python)

#### AI & Computer Graphics

- [Using Artificial Intelligence Techniques in Computer Graphics](#)
- Translate and present in a class by a group of 5 students
- University Research Method & Report Writings course (Translated)

### - Teaching Experience

#### TA

- Data Mining, Dr. Fatemeh Shakeri, Amirkabir University, Winter 2024
- Preparing course materials with a group of students and teaching them how to layout the materials

#### TA

- 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, for the group of course students, Winter 2023
- Numerical Linear Algebra, for the group of course students, Fall 2022

### - Presentations

#### CapsNet

- Capsule Neural Networks, improving CNNs
- University Neural Networks course

#### UI/UX

- Hosted an online webinar on UI/UX design for the Students' Guild Council (MCS SGC) of our Faculty

#### ANN

- Approximate Nearest Neighbor method in Data Mining (KNN Improvement)
- University Data Mining course

#### Hough Transform

- Method to find simple shapes like lines and circles in image
- University Image Processing course

#### Slides Preparing

- Ten stages in preparing your slides
- University Special Language course (In English)

## ACHIEVEMENTS

---

### Awards

- 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
- Kungfu Toa Anatua, Atado and Soto levels Certificate (2010 - 2012)
- Chess championship at the provincial level (2009)

<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>	MathCS Faculty TopLearn CWS2022
<b>Courses</b>	<ul style="list-style-type: none"> <li>• Python, C++, Git and GitHub (Jadi)</li> <li>• Figma, GAMS, HTML/CSS</li> <li>• Machine Learning</li> <li>• Computer Graphics, Adobe XD</li> </ul>	FaraDars SariAsan Educative Maktabkhooneh

## REFERENCES

---

<b>Dr. Behzad Najafi</b>	Supervising Professor at University (B.Sc) Associate Professor at Mathematics and Computer-Science Faculty Amirkabir University of Technology <a href="mailto:behzad.najafi@aut.ac.ir">behzad.najafi@aut.ac.ir</a>
<b>Dr. Mehdi Ghatee</b>	Supervising Professor at University (M.Sc) Full Professor at Mathematics and Computer-Science Faculty Amirkabir University of Technology <a href="mailto:ghatee@aut.ac.ir">ghatee@aut.ac.ir</a>
<b>Dr. Fatemeh Shakeri</b>	Bachelor's Project Supervisor Assistant Professor at Mathematics and Computer-Science Faculty Amirkabir University of Technology <a href="mailto:f.shakeri@aut.ac.ir">f.shakeri@aut.ac.ir</a>
<b>Dr. Ali Mir-salehi</b>	Supervising Professor at High-School Teaching Professor at Management Faculty Islamic Azad University <a href="mailto:a.mirsalehi@iau-tnb.ac.ir">a.mirsalehi@iau-tnb.ac.ir</a>