

Amirhossein Rajabpour

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Research interests Artificial Intelligence, Deep Learning, Time Series Analysis, Vision

Education **University of Alberta** Edmonton, Alberta, Canada
M.Sc. of Computing Science 2023 – Expected 2025

Amirkabir University of Technology (Tehran Polytechnic) Tehran, Iran
B.Sc. of Computer Engineering 2018 – 2023

Major in Artificial Intelligence, Minor in Computer Networks

• *cGPA: 17.32 (3.69/4)*

• *GPA (last two years): 18.75 (3.96/4)*

Technical Skills **Programming Languages:** Python, C, Java, Kotlin, Octave
OS: Windows, Linux (Ubuntu)
Artificial Intelligence: Tensorflow, Pytorch, Keras, Scikit learn, Fastai
Database Systems: MySQL, PostgreSQL
Web Development: Django, Flask, HTML, CSS
Miscellaneous: OpenCV, Docker, Jira, Git, LaTeX, Numpy, Pandas, Plotly, Selenium, Xampp, Wireshark, GNS3, Arduino, Verilog, VHDL

Research and work **Bachelors Thesis | Amirkabir University | Mar 2023 – May 2023**
Experiences Face aging platform using generative models e.g. CycleGAN and reversible models. Supervised by [Mohammad Rahmati](#).

Research Assistant | Amirkabir University | Feb 2022 – Jun 2022
Supervised by [Hamed Farbeh](#). Working on portfolio asset allocation using reinforcement learning and graph neural networks. I was responsible for implementing a graph convolutional network from a time series dataset.

Machine Learning Engineer | R&D Department of Crouse PJS Co. | Oct 2021 – Jan 2022

Working on an AI Vision problem. My job was to design a light model using classical ML algorithms to find malfunctioning LEDs with the following steps:

- Localizing LEDs on the monitor
- Clustering LEDs light pixels and using the more valuable clusters for extracting light information with fuzzy C-means clustering
- Extracting luminance and wavelength from those selected clusters
- Use different regression models for different LED colors to detect malfunctioning LEDs

DevOps Engineer Intern | Graph Co. | Nov 2020 – Apr 2021

Working with Docker, Minikube, and some backend technologies

Teaching
Experiences

Teaching Assistant | Principles of Artificial Intelligence | Fall 2022

- Under the supervision of [Mahdi Javanmardi](#)
- Designing (and grading) projects about Constrained Satisfaction Problems, adversarial search, Bayes Nets, and Reinforcement Learning

Teaching Assistant | Cloud Computing | Fall 2022

- Under the supervision of [S.Ahmad Javadi](#)
- Designing (and grading) practical assignments about using APIs, working with cloud services, and working with Docker and Kubernetes

Teaching Assistant | Internet of Things | Fall 2022

- Under the supervision of [Siavash Khorsandi](#)
- Designing (and grading) assignments about various scenarios for working with different sensors and actuators and programming with Arduino

Teaching Assistant | Algorithm Design | Spring 2022 & Fall 2021 & Spring 2021

- Under the supervision of [Alireza Bagheri](#), [Sajad Shirali-Shahreza](#)
- Defining and grading assignments
- Taking quizzes

Honors and
Awards

Master's Admissions: Fully funded admission to UofA CS, ECE and Radiology & Diagnostic Imaging programs and University of Western Ontario CS program 2023

Bachelor's Scholarship: Awarded a 4-year scholarship from Amirkabir University of Technology 2019-2023

University Entrance Exam: Achieved top 1% place among more than 140,000 applicants of the Nationwide Mathematics University Entrance Exam 2018

Language Skills

Persian: Native

English: TOEFL iBT: 109 (R: 26, L: 28, S: 26, W: 29)

German: Professional Working Proficiency (B2)

References

Available upon request

**To review my projects and certificates, check my [Homepage](#).*