

# Amirhossein Rajabpour

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**Homepage:** [amirhossein-rajabpour.github.io](https://amirhossein-rajabpour.github.io)

Research interests	Artificial Intelligence, Deep Learning, Time Series Analysis, Vision	
Education	<b>University of Alberta</b>	Edmonton, Alberta, Canada
	<b>M.Sc. of Computing Science</b>	2023 – Expected 2025
	<b>Amirkabir University of Technology (Tehran Polytechnic)</b> Tehran, Iran	
	<b>B.Sc. of Computer Engineering</b>	2018 – 2023
	Major in Artificial Intelligence, Minor in Computer Networks	
	• <i>cGPA</i> : 17.25 (3.68/4)	
	• <i>GPA (last two years)</i> : 18.69 (3.95/4)	
Technical Skills	<b>Programming Languages:</b> Python, C, Java, Kotlin, Octave <b>OS:</b> Windows, Linux (Ubuntu) <b>Artificial Intelligence:</b> Tensorflow, Pytorch, Keras, Scikit learn, Fastai <b>Database Systems:</b> MySQL, PostgreSQL <b>Web Development:</b> Django, Flask, HTML, CSS <b>Miscellaneous:</b> OpenCV, Docker, Jira, Git, LaTeX, Numpy, Pandas, Plotly, Selenium, Xampp, Wireshark, GNS3, Arduino, Verilog, VHDL	
Research and work Experiences	<b>Bachelors Thesis   Amirkabir University   Mar 2023 – May 2023</b> Face aging platform using generative models e.g. CycleGAN and reversible models. Supervised by <a href="#">Mohammad Rahmati</a> . <b>Research Assistant   Amirkabir University   Feb 2022 – Jun 2022</b> Supervised by <a href="#">Hamed Farbeh</a> . 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. <b>Machine Learning Engineer   R&amp;D Department of Crouse PJS Co.   Oct 2021 – Jan 2022</b> 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: <ul style="list-style-type: none"><li>• Localizing LEDs on the monitor</li><li>• Clustering LEDs light pixels and using the more valuable clusters for extracting light information with fuzzy C-means clustering</li><li>• Extracting luminance and wavelength from those selected clusters</li><li>• Use different regression models for different LED colors to detect malfunctioning LEDs</li></ul>	

**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](#).*