

## Mostafa Nesaieian

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<b>RESEARCH INTERESTS</b>	<ul style="list-style-type: none"><li>• Machine Learning</li><li>• Control Theory</li><li>• Applied Mathematics</li><li>• Optimization</li></ul>
<b>EDUCATION</b>	<p><b>Amirkabir University of Technology (Thehran Polytechnic)</b> <i>Bachelor of Science</i>, Electrical Engineering: 2020 - present - GPA: 16.7/20 - 3.55/4 Total: 140 credits</p> <p><b>National Organization for Development of Exceptional Talents (Sampad)</b> <i>High School Diploma</i>, Mathematics and Physics: 2014 - 2020 - GPA: 19.68/20 - 3.96/4</p>
<b>RESEARCH EXPERIENCE</b>	<p><b>Research Assistant</b> at Computational Intelligence Lab School of Electrical Engineering, Amirkabir University of Technology part-time Sep 2023 - Present • Researching State Estimation methods under supervision of Dr. <a href="#">Farzaneh Abdollahi</a></p> <p><b>Research Assistant</b> at Digital Unit Lab RIPI part-time Mar 2024 - Present • Researching on Neural network based MPC under supervision of Dr. <a href="#">S. Vahid Naghavi</a></p> <p><b>Bachelor Thesis: State Estimation</b> Fall 2024 • State Estimation</p>
<b>PUBLICATION</b>	<ul style="list-style-type: none"><li>• Ali Izadi, <b>Systematic Review of Causal Discovery using Continuous Optimization. Reformulating causal discovery as a graph matching problem.</b>, 2022, Conducted as a systematic review for my seminar course in artificial intelligence and also proposed a new reformulation of linear causal discovery.</li></ul>
<b>TEACHING</b>	<ul style="list-style-type: none"><li>• <b>Calculus 2: Teaching Assistant</b> Jan - Jun 2023 Amirkabir University of Technology</li></ul>
<b>HONORS AND AWARDS</b>	<ul style="list-style-type: none"><li>• Ranked 550 in the National University Entrance Exam among 160,000 students.</li></ul>
<b>WORK EXPERIENCE</b>	<p><b>Summer Internship :</b> Fater Afkar Fanavar Jul 2023 - Aug 2023 • Designing controllers via python (OpenOPC module) for pilot plant. • Instrumentation, Simulating and processing sensors. • Image processing. (<a href="#">Link</a>)</p> <p><b>Image Processing:</b> Fater Afkar Fanavar Part-time Sep 2018 - Dec 2020 • Working on deepface model, Vgg16 for image processing. • Working on face vectorizing using mathematical methods with implementation.</p> <p><b>Ai Researcher:</b> Research Institute of Petroleum Industry (RIPI) Part-time Sep 2018 - Dec 2020 • Designing and developing intuitive and responsive front-end interfaces for web application using React.</p>

- Validation, evaluation and help for backend project.
- Conducted research and development for image processing, utilizing advanced neural network architectures to create models for object detection and recognition

## **PROJECTS**

computation intelligence  
modern control  
VHDL  
MPC  
Self project

## **SKILLS**

- Programming Languages: Python, R, C, C++, Java
- Database Technologies: SQL, MongoDB, NoSQL, GraphDB
- Other Technologies: TensorFlow, Keras, Flask, Docker, Git, React, Jupyter

## **ADDITIONAL INFORMATION**

- Languages: Fluent in English and Persian. a bit french.
- Interests: Data Analysis, Optimization and applied mathematics.