

# Sadaf Nazari

## Personal

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Website: <https://sadafnazari.github.io/>

## Education

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- Sep. 2016-Present
- B.Sc. in Computer Engineering, K. N. Toosi University of Technology, Tehran, Iran.  
[World university rankings 2020](#): 801-1000<sup>th</sup>
    - ❖ Overall GPA: 3.34/4 (16.76/20)
    - ❖ Last two-year GPA: 3.55/4 (17.10/20)

## Fields of Interest

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- Machine Learning, Deep Learning, Reinforcement Learning
- Computer Vision, Image Processing
- Robotics

## Honors and Awards

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- Dec. 2018
- Best Presentation in RoboCup Asia-Pacific (2D Soccer Simulation League).
- Sep. 2018
- 3<sup>rd</sup> place in RoboCup Shiraz Open Competition (2D Soccer Simulation League).
- Sep. 2016
- Received Full Tuition Fee Waiver Scholarship from K. N. Toosi University of Technology.
- Jul. 2016
- Ranked in the top 0.8% among more than 200000 participants in the annual nationwide undergraduate university entrance(konkoor) exam.

## Selected Projects

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- Bachelor Thesis, Single Shot Licence Plate Detection (In progress)
  - ❖ We are trying to use mobilenet + SSD architecture for detecting licence plates.
  - ❖ Assistant Professor: Dr. Behrooz NasihatKon
- Development of Persian Handwritten Recognizer ([GitHub link](#))
  - ❖ We used Computer Vision and CNN to detect Persian letters and digits.
  - ❖ Assistant Professor: Dr. Behrooz NasihatKon
- Development of AES Rijndael Algorithm on FPGA ([GitHub link](#))
  - ❖ We hired hardware approach to speed up encryption and decryption.
  - ❖ Assistant Professor: Dr. Hossein HosseiniNejad
- Development of audio feature extractor ([GitHub link](#))
  - ❖ Our objective was to distinguish vowels from consonants by calculating their energies.
  - ❖ Assistant professor: Dr. Roghaye Doost

## Research Experience

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- Sep. 2020-Present • Researcher, [Rahbin Sanat Nasir](#), Tehran, Iran.
- Jul. 2020-Sep. 2020 • Research Intern, [Rahbin Sanat Nasir](#), Tehran, Iran.
- Dec. 2017-Apr. 2019 • Researcher, 2D Soccer Simulation League, [KN2C Robotic Team](#), Tehran, Iran.

## Teaching Experience

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- Sep. 2019-Jun. 2020 • Teacher, Python Programming, Taghva High School, Tehran, Iran.
- Sep. 2019-Jan. 2020 • Teaching Assistant, Digital Electronic & VLSI, K. N. Toosi University of Technology, Tehran, Iran.
  - ❖ Assistant Professor: Dr. Masoud DehYadegari
- Jan. 2019-May 2019 • Teaching Assistant, Fundamentals of Programming, K. N. Toosi University of Technology, Tehran, Iran.
  - ❖ Assistant Professor: Dr. Chitra Dadkhah
- Sep. 2018-Mar. 2019 • Instructor of C++ Programming Course, KNTU ACM Student Chapter, Tehran, Iran.
  - ❖ Assistant Professor: Dr. Amin NikAnjam
- Sep. 2018-Jan. 2019 • Teaching Assistant, Microprocessors & Assembly Language, K. N. Toosi University of Technology, Tehran, Iran.
  - ❖ Assistant Professor: Dr. Behrooz NasihatKon
- Jan. 2018- May 2018 • Teaching Assistant, Discrete Mathematics, K. N. Toosi University of Technology, Tehran, Iran.
  - ❖ Assistant Professor: Dr. Hossein Khasteh

## Certificates

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- KNTU ACM Student Chapter ([link](#))
- RoboCup Asia-Pacific 2018 Competition ([link](#))
- RoboCup Shiraz Open 2018 Competition ([link](#))
- Deep Learning Specialization ([link](#))
- Machine Learning with Python([link](#))

## Relevant Courses

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- Fundamental of Computer & programming (A+)
- Algorithm Design (A)
- Engineering Probability (A+)
- Artificial Intelligence & Expert Systems (A)
- Fundamental of Robotics (A)
- Foundations of Computer Vision (A+)

## Computer Skills

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Deep Learning	TensorFlow, Keras
Computer Vision	OpenCV, NumPy, SciPy, Matplotlib
Programming Language	C++, Python, C (EXPERT) Java, VHDL, Verilog, x86Assembly (FAMILIAR)
Tools	GIT, Linux, Qt, PyQt5
Web Development	HTML, CSS, JavaScript(FAMILIAR), React Native(FAMILIAR)

## Language Skills

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- Persian: Native
- English: Fluent