# Sadaf Nazari

## Personal

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| Email: | Sadafitsn.98@gmail.com |
| Phone Number: | +98 910 683 1629 |
| LinkedIn: | https://www.linkedin.com/in/sadaf-nazari/ |
| Website: | https://sadafnazari.github.io/ |

## Education

Sep. 2016-Present

- B.Sc. in Computer Engineering, K. N. Toosi University of Technology, Tehran, Iran.
  World university rankings 2021: 801-1000th
  - ❖ Overall GPA: 3.34/4 (16.76/20)
  - ❖ Last two-year GPA: 3.55/4 (17.10/20)

## Fields of Interest

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

## Honors and Awards

Dec. 2018
- Best Presentation in RoboCup Asia-Pacific (2D Soccer Simulation League).

Sep. 2018
- 3rd 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

- 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 Rijndeal 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 | • Researcer, 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.<br> ❖ Assistant Professor: Dr. Masoud DehYadegari |
| Jan.2019-May 2019 | • Teaching Assistant, Fundamentals of Programming, K. N. Toosi University of Technology, Tehran, Iran.<br> ❖ Assistant Professor: Dr. Chitra Dadkhah |
| Sep. 2018-Mar. 2019 | • Instructor of C++ Programming Course, KNTU ACM Student Chapter, Tehran, Iran.<br> ❖ Assistant Professor: Dr. Amin NikAnjam |
| Sep. 2018-Jan. 2019 | • Teaching Assistant, Microprocessors & Assembly Language, K. N. Toosi University of Technology, Tehran, Iran.<br> ❖ Assistant Professor: Dr. Behrooz NasihatKon |
| Jan. 2018- May 2018 | • Teaching Assistant, Discrete Mathematics, K. N. Toosi University of Technology, Tehran, Iran.<br> ❖ Assistant Professor: Dr. Hossein Khasteh |

## Certificates

- 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

- 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

- Persian: Native
- English: Fluent