

# Milad Soltany Kadarvish

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## EDUCATION

### Iran University of Science and Technology

BSc in Electrical Engineering - Control

Tehran, Iran

2017–2021 (Expected)

- Total CGPA: 3.62/4, (16.63/20)
- CGPA via last 60 credits: 3.85/4, (17.75/20)

## AWARDS AND HONORS

- Ranked 2nd Team in FIRA competitions in Autonomous Cars league (race section) Winter and Spring of 2021
- Ranked 3rd Team in FIRA competitions in Autonomous Cars league (urban section) Winter and Spring of 2021
- Ranked 1st Team in the National Rahneshtan competitions for Autonomous Vehicles Fall 2020 - Winter 2021
- Ranked 2nd Team among more than 140 teams in National Data-Days competitions Winter 2020
- Ranked 68th (99th percentile) in National University Entrance Exam for Mathematics and Physics 2017
- Ranked 28th (99th percentile) in National University Entrance Exam for Foreign Languages 2017
- Top student for 6 consecutive semester at the ILI (Iran Languages Institute) 2014-2015

## RESEARCH INTERESTS

- Artificial Intelligence
- Computer Vision
- Deep Learning
- Autonomous Driving
- GANs
- Machine Learning

## ACADEMIC PROJECTS

### Grand Projects

- Fully autonomous vehicle (Final Project) (April 2021 - Present)
- Unauthorized Load Detection using Stereo Cameras (2020 - 2021)
- Fully autonomous vehicle (simulated in unity) (May-July 2020)
- Smart Library with gesture recognition and visual book identification (June-August 2020)
- Online Ad-Recommender System (Jan - March 2020)

### Minor Projects

- In-depth analysis and implementation of a CGAN
- Implementing a fully-connected neural network from scratch using no libraries
- Depth-estimation using SGBM
- Sentiment analysis on the Sentiment140 dataset
- Face Detection using YOLO
- Face recognition using a Siamese neural network
- Street sign dataset collection
- System identification for various modes of EHS 160 multi-process system
- Background subtraction for highway videos using classic computer vision and deep learning
- Pseudo-random number generator for various distributions using no libraries
- PID Controller design (Linear Control systems project)
- Ultrasonic distance measurement with visual and bluetooth output (Linear Algebra project)

## EXPERIENCE

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### Research Experience

- AI Researcher at AI and Control Lab, Iran University of Science and Technology Summer and Fall 2020  
*Working on computer vision projects*
- Co-Founder, Instructor and Mentor at Artificial Intelligence and Robotics (AIR) Center July 2020 - Present  
*Holding programming and robotics classes*

### Teaching Experience

- Teaching Assistant at IUST Winter 2021  
*Mechatronics*
- Instructor at AIR Center Winter 2021  
*Introduction to Deep Learning Course*
- Instructor at AIR Center Fall 2020  
*Zero to Hero Python Bootcamp*
- Mentor at AIR Center Fall 2020  
*Zero to Hero Data Science and Machine Learning Course*
- Mentor at AIR Center Summer 2020  
*Zero to Hero Python Bootcamp*
- Instructor at Soroush Languages Institute Fall 2017  
*English Tutor*

## COMPUTER SKILLS

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- Python3
  - Numpy
  - NPM
  - Matplotlib
- Git
- Arduino, AVR
- Matlab
- C/C++
- OpenCV
- Scikit-Learn
- Keras
- PyTorch
- Tensorflow
- Latex
- CodeVision AVR

## ONLINE COURSES

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- GANs Specialization, Coursera
- Python Zero to Hero Bootcamp, Udemy
- Neural Networks and Deep Learning, Coursera
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Coursera
- Convolutional Neural Networks, Coursera
- Structuring Machine Learning Projects, Coursera
- Sequence Models, Coursera
- Introduction to Self-Driving Cars, Coursera
- Tensorflow in Practice Specialization, Coursera

## LANGUAGES

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- **English:** Fluent
  - **IELTS** Score: Mock Test Jan 2021 (Official test to be taken soon)  
\* L(8), R(7.5), S(7.5), W(6.5). Overall (7.5)
- **Persian:** Native
- **Kurdish:** Native