

Reza Karbasi

MACHINE LEARNING SPECIALIST · ELECTRICAL ENGINEER

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Education

TU(Tehran University)

Tehran, Iran

M.S. IN COMPUTER ENGINEERING - ARTIFICIAL INTELLIGENCE

Sep. 2019 - Jan. 2022

- GPA : 18.83/20
- Final Project : Earthquake early warning system using smartphones
 - Supervisors : Dr. Hadi Moradi, Dr. Mahmoud Reza Hashemi
 - Consultant : Dr. Ali Moradi

KNTU(Khajeh Nasir Yoosi University of technology)

Tehran, Iran

B.S. IN ELECTRICAL ENGINEERING - CONTROL

Sep. 2014 - Jan. 2019

- GPA : 17.4/20
- Rank 2/30 in control - Rank 10/130 in total
- Final Project : Fault detection in gas turbine
 - Supervisor : Dr. Mahdi Aliyari

Experience

Hara Company

Tehran, Iran

ML ENGINEER

Jul. 2022 - now

- Working on speech to text models
- Analyzing models based on different tests
- Making a deep learning model to generate sound's metadata

Aras Academy

Tehran, Iran

INSTRUCTOR / TEACHER

Jun. 2021 - Aug. 2021

- Supervisor : Prof. Hamid D. Taghirad
- Course : Introduction to Reinforcement Learning
- Link to the website : <http://aras.kntu.ac.ir/education/aras-academy/>

QDM

Tehran, Iran

DESIGNER OF A TRADER BOT

Apr. 2019 - Jan. 2020

- Design the trade strategies in Metatrader
- Setting hyperparameters using Reinforcement Learning (DQN)
- My published blog : medium blog and github repo
- **Highlights** Python , MQ4 , Deep Q Network , RL , Ichimoku , Backtrader , Multithread

Raiwan

Tehran, Iran

ELECTRONIC ENGINEER , DEVICE DESIGNER

Dec. 2017 - Jun. 2019

- Participated in 2 Projects :
 - Inner hospital communication : Board design, programming STM32
 - Taxi paying device : mechanical design, programming ESP32
 - **Highlights** stm32f103 , stm32Cube , Altium designer , keil , CNC
- Link to the website : <http://raiwan.ir/>

KN2C

Tehran, Iran

ELECTRONIC AND CONTROL ENGINEER

May 2015 - Sep. 2017

- Supervisor : Prof. Hamid D. Taghirad
- Small Size League(SSL)
- Notable Projects :
 - Design of robot's electronic
 - Kalman filter for position filtering
 - **Highlights** Xmega , PCB design , PID controller , Kalman filter , Soldering , FPGA
- Link to the website : <http://kn2c.aras.kntu.ac.ir/>

Honors & Awards

- 2019 **Ranked 3rd**, Snake league in Nasir Cup
- 2019 **Ranked 28th**, The national university entrance exam for M.Sc. degree in Artificial Intelligence
- 2016 **Ranked 5th**, Small Size League(SSL) in RoboCup Iran Open
- 2014 **Ranked 888th**, The national university entrance exam for B.Sc. degree

Notable Projects

Brain Activity Recognition using EEG

RESEARCHER

Feb. 2021 - Aug. 2021

Supervisor : Dr. Mohammadreza Abolghasemi Dehaqani

Duty : Playing a video game using EEG

My task : Implementation of Adaptive neuro fuzzy inference system (ANFIS) algorithm on a classification task

Data Mining on California hospitalization dataset

DATA ANALYST

Nov. 2020

Employer : Ponisha (It's a freelance website)

Tasks : Finding the surgery results dataset, analyze the results of surgeries

Digikala Comments Analysis

RESEARCHER

May 2020

Project Website : <https://github.com/rezakarbasi/digikala-crawler>

Duty : Finding customer's opinion about a product using the product's comments

My task : crawl Digikala website , designing a sentiment analysis network

Determining power of Telecom's stations using RL

RESEARCHER

Sep 2021

An agent designed using a deep RL method (A3C)

Notable Course Projects

Soroush App posts analysis

DESIGNING WEBSITE CRAWLER

Big Data

Project Website : <https://github.com/rezakarbasi/BigDataCourse-FinalBS>

Duty : Analyzing the Soroush's public channel posts using big data

My Task : Crawl the app, cleaning the data and send it to Kafka

Semantic Segmentation

IMPLEMENTING AND LEARNING SEGNET NETWORK

Deep Neural Networks

Image Captioning

USING RESNET18 AND LSTM MODEL

Deep Neural Networks

English to Persian translator

USING TRANSFORMER MODEL

Deep Neural Networks

An RL agent for trading in stock market

IMPLEMENTING RL FOR TRADING IN STOCK MARKET

Reinforcement Learning

Teaching Assistant

Deep Neural Networks

INSTRUCTOR : DR. RESHAD HOSSEINI

Spring 2022

Introduction to Reinforcement Learning

INSTRUCTOR : PROF. MAJID NILI AHMADABADI

Fall 2021

System Identification

INSTRUCTOR : PROF. BABAK NADJAR ARAABI

Spring 2020

Pattern Recognition

INSTRUCTOR : DR. HAMID ABRISHAMI MOGHADDAM

Fall 2022, Fall 2019 & Fall 2017

Notable Courses

Pattern Recognition, 20/20

Dr. Hamid Abrishami Moghaddam

Machine Vision, 19.25/20

Dr. Rashad Hosseini

Reinforcement Learning, 20/20

Prof. Majid Nili Ahmadabadi

Artificial Intelligence, 18.75/20

Dr. Hadi Moradi

Big Data, 19.3/20

Dr. Masoud Asadpour

Deep Neural Network, 18/20

Dr. Rashad Hosseini

System Identification, 18.5/20

Prof. Babak Nadjar Araabi

Interests

Watching movies,

Reading books,

Playing Football,