

MACHINE LEARNING SPECIALIST · ELECTRICAL ENGINEE

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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

Sep. 2014 - Jan. 2019

Dec. 2017 - Jun. 2019

B.S. IN ELECTRICAL ENGINEERING - CONTROL

• 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)

• Highlights Python, MQ4, Deep Q Network, RL, Ichimoku, Backtrader, Multithread

Raiwan Tehran, Iran

ELECTRONIC ENGINEER, DEVICE DESIGNER

• 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

December 24, 2022 Reza Karbasi · Résumé

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

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Notable Courses

Pattern Recognition, 20/20 Machine Vision, 19.25/20 Reinforcement Learning, 20/20 Artificial Intelligence, 18.75/20 Big Data, 19.3/20 Deep Neural Network, 18/20 System Identification, 18.5/20 Dr. Hamid Abrishami Moghaddam
Dr. Rashad Hosseini
Prof. Majid Nili Ahmadabadi
Dr. Hadi Moradi
Dr. Masoud Asadpour
Dr. Rashad Hosseini
Prof. Babak Nadjar Araabi

Interests_

Watching movies, Reading books, Playing Football,