



<https://github.com/msaeedmt>

# Mohammad Saeed Motevali

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## Education

2018–present **Bachelor of Technology in Computer Engineering.**

Amirkabir University Of Technology , Iran , Tehran

16.89

2016–2018 **High School Diploma , Mathematics.**

Shahid Beheshti High School

19.50

## General Skills

**Machine Learning, Deep Learning, Data Preparation, Pattern Recognition**

**Data visualization, Agile Methodologies**

**Familiar with Blockchain, Cryptocurrency analysis and trading**

## Technical Skills

Programming Languages	Python(Numpy, Pandas, Keras, Seaborn, Matplotlib, scikit-learn, OpenCV), Spark Hadoop, CSharp(.Net), C++, Racket, HTML/CSS, Javascript(Vuejs, Nodejs)
Operating Systems	Linux(ubuntu), Windows
Databases	Mysql, Postgresql ,Mongodb , Sqlite
Languages	Persian(Native) , English(Professional working proficiency)
Industry Knowledge	Algorithms , OOP, Design patterns, Machine Learning , Deep Learning
Miscellaneous	Git, Jupyter Notebook, Google Colab, Pycharm, VSCode

## Projects

### Handwrite digit recognition.

**Objective:** Handwrite digit recognizer using neural networks and deep learning

**Description:** First implementation with Deep learning using neural networks implemented by python and numpy, second implementation using transfer learning using customized CNN networks, Data augmentation using Auto Augment

### Evolutionary Games.

**Objective:** Implement a smart agent for playing the game using GAN network

**Description:** The game is implemented with pygame, the agent progresses using neural network trained with evolutionary algorithm and transfer learning

### Divar Data analyses.

**Objective:** Create a model for analysing user car ads by special standards

**Description:** Using word2vec and tf-idf for word embedding / using XGboost, SVM, Random Forrest for Classification tasks, bidirectional LSTM and Bert model for NER, LDA for topic modeling and a neural network as an ensembling model

### Smart CCTV camera.

**Objective:** Implement a program for detecting humans and changes in videos. we can use this for CCTV cameras thus we can just save the periods with abnormal human actions and also give alert at that very time

**Description:** Using different algorithms for change detection , denoising(Morphology) , object detection , filtering ...

### **FCM algorithm.**

**Objective:** Implementing fuzzy k-means clustering algorithm

**Description:** Using numpy for implementation and matplotlibs for visualization

### **Tabein.**

**Objective:** Fullfeature Lms and social media.

**Description:** CSharp , .Net core web api , SignalR for backend and Vuejs for frontend

### **PostService.**

**Objective:** ECommerce platform and order management system

**Description:** developing, testing and deploying backend services with CSharp , .Net core web api based on CQRS , MediatR pattern and Microservice architecture, SignalR and Vuejs for frontend

### **Content Management System.**

**Objective:** Fullfeature CMS

**Description:** CSharp , .Net core web api for backend and Vuejs for frontend

### **Jpotify.**

**Objective:** Simple music player simulated from spotify

**Description:** Java , Swing

## **Major Courses Undertaken**

Computer Engineering	Principles of Computational Intelligence, Data mining, Computer Simulation, Information Retrieval, Principles and Applications of Artificial Intelligence, Design and Analysis of Algorithms, Linear Algebra, Database Design, Software Engineering, Data Structures, Computer Networks
Mathematics	Engineering Statistics, Linear Algebra, Differential Calculus

## **Certificates and Workshop**

- 1 **Machine Learning by AndrewNG Coursera**
- 2 **Deep Learning by AndrewNG Coursera**

## **Teaching Experiences**

Fall 2020	<b>Teaching Assistant, Linear Algebra</b> , under supervision of : DR. Nazerfard.
Spring 2020	<b>Teaching Assistant, Data mining</b> , under supervision of : DR. Nazerfard.

## **Achivments and Awards**

Ranked **156** at university entrance exam

## **Interests**

Artificial Intelligence, Machine Learning ,Deep learning ,Computer Vision

AI in Cryptocurrency analysis and trading

Backend development

## **References**

**Dr. Ehsan Nazerfard.**

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Homepage: <http://ceit.aut.ac.ir/nazerfard>