Armin Abdollahi

Artificial Intelligence Specialist
Data Scientist
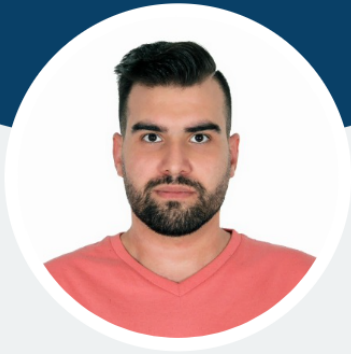
Personal details

- **Armin Abdollahi**
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- Tehran , Iran
- March 27, 1999
- Male
- Iranian
- Unmarried
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Skills

Skill	Level
Python programming	●●●○○
Matlab programming	●●●●○
Deep Learning	●●●●○
Machine Learning	●●●●○
Signal Processing	●●●●○
Image Processing	●●●●○

Education

Master of Artificial Intelligence   **09/2022 - Present**
Azad University, North Tehran Branch, Tehran
GPA: 19.02 out of 20

Bachelor of Software Engineering   **09/2018 - 06/2022**
Roshdiyeh University, Tabriz , East Azerbaijan Province
GPA: 15.80 out of 20

Work Experience

Freelance Programmer   **11/2020 - Present**
Tehran
Getting Artificial Intelligence projects from freelance sites

Teaching Assistant   **09/2023 - Present**
Azad University, North Tehran Branch, Tehran
Course: Digital Signal Processing
Prof. Maliheh Sabeti
- Conducting tutorials & lab sessions (EEGLAB Tutorial in MATLAB)
- Assisting with course preparation
- Mentoring and Advising Students

Teaching assistant   **09/2023 - Present**
Azad University, North Tehran Branch, Tehran
Course: Digital Image Processing
Prof. Maliheh Sabeti
- Mentoring and Advising Students

Profile Summary

I am an Artificial Intelligence engineer with a background in image processing, who is currently studying for a master's degree in Artificial Intelligence and also graduated from the field of Software Engineering from Roshdiyeh University in Tabriz .
My experience includes working with algorithms, AI projects, programming and debugging. I have also worked with programming languages such as Python, MATLAB and C++. In addition, I have extensive knowledge in Machine Learning and Deep Learning, and I am interested in learning new knowledge and participating in challenging projects.

Research Interests

Brain Computer Interface (BCI)
Biomedical Signal Processing
Natural Language Processing
Digital Image Processing
Deep Learning

C++ programming	●●●○○
HTML programming	●●●○○
CSS programming	●●○○○
PHP programming	●●○○○
Linux	●●○○○
Research Methodology	●●●●○
Proficient in ICDL	●●●●○
Cooperation and team participation	●●●●○
Commitment and responsibility	●●●●○
Time management and planning	●●●●○

Languages

English	●●●○○
German	●○○○○
Persian	●●●●●
Turkish	●●●●○

Profiles

GitHub

LinkedIn

Certificates

Data Processing with Deep Learning Techniques based on Python **02/2023**
I have completed this 30-hour course at the National Brain Mapping Lab

Neuroscience Data Processing with Deep Learning Techniques based on Python **06/2023**
I have completed this advanced 21-hour course at the National Brain Mapping Lab

Artificial Intelligence algorithms project in the fields of diagnosis, treatment and prognosis **08/2023**
This course was held under the supervision of the Functional Neurosurgery Research Center (FNRC) and Iran Elites Network and in collaboration with the Shahid Beheshti University.

Artificial Intelligence algorithms project **09/2023**
I have successfully completed the advanced course of the Artificial Intelligence algorithms project offered by the Student Scientific Association of Neurosurgery.

Comprehensive Course on Neuroanatomy, Neurophysiology and Reviewing Neurological and Psychiatric Disorders **01/2023**
I have completed this 28-hour course at the National Brain Mapping Lab

International Computer Driving License **09/2022**
I have completed this 130-hour course at the Iran Technical and Vocational Training Organization.

Projects

Hydrocephalus classification using deep learning **08/2023 - Present**
Publishing the article
Researching and writing an article regarding the classification of hydrocephalus using deep learning

Bone age estimation with convolutional neural network **12/2022**
Master's project
Estimation of bone age using X-Ray images with the Convolutional Neural Network
- Related link: https://github.com/Armin-Abdollahi/Bone-Age-Estimation

Multilayer Perceptron Neural Network **10/2023**
Master's Project
Implementation of Multilayer Perceptron Neural Network on MNIST, CIFAR-10, and Boston house Price datasets with TensorFlow and PyTorch frameworks.
- Related link: https://github.com/Armin-Abdollahi/Multilayer-Perceptron-Neural-Network

Iris flower classification **12/2022**
Mater's Project
This project focuses on IRIS flower classification using machine learning and using scikit tools.
- Related link: https://github.com/Armin-Abdollahi/Iris-Flower-Classification

Implementation of Deep Learning algorithms   11/2023 - Present
Master's Project

Implementation of Deep Learning algorithms such as: Long Short-Term Memory (LSTM), Recurrent Neural Network (RNN), Generative Adversarial Networks (GAN) in TensorFlow and PyTorch frameworks.

- Related link:
1. https://github.com/Armin-Abdollahi/Long-Short-Term-Memory
2. https://github.com/Armin-Abdollahi/Recurrent-Neural-Network
3. https://github.com/Armin-Abdollahi/Generative-Adversarial-Networks

MNIST Handwritten digit recognition with a graphical interface   06/2023
Master's Project

Recognition of handwriting digit with a graphical user interface using the Python programming language

- Related link: https://github.com/Armin-Abdollahi/Handwriting-Recognition

Implementation of Optimization Algorithms   11/2022
Master's Project

Implementation of Optimization Algorithms such as: Particle Swarm Optimization, Genetic, Gray Wolf Optimization, Differential Evolution, Firefly

- Related link:
1. https://github.com/Armin-Abdollahi/Particle-Swarm-Optimization
2. https://github.com/Armin-Abdollahi/Genetic-Algorithm
3. https://github.com/Armin-Abdollahi/Gray-Wolf-Optimization
4. https://github.com/Armin-Abdollahi/Differential-Evolution
5. https://github.com/Armin-Abdollahi/Firefly-Algorithm

Robot Navigation   12/2022
Master's Project

Building a robot simulator and routing it through obstacles in the MATLAB environment

- Related link: https://github.com/Armin-Abdollahi/Robot-Navigation

Face Recognition   03/2023
Freelance Project

Face recognition in video and images with OpenCV

- Related link: https://github.com/Armin-Abdollahi/Face-Recognition

Face Detection with Viola-Jones Algorithm

- Related link: https://github.com/Armin-Abdollahi/Face-Detection

Signal Processing   07/2023
Master's Project

EEGLAB Tutorial in MATLAB, Implementation of Butterworth and Elliptic filters, Steganography code

- Related link: https://github.com/Armin-Abdollahi/Signal-Processing

Image Processing   07/2023
Master's Project

Implementation of several image processing filters in MATLAB

- Related link: https://github.com/Armin-Abdollahi/Image-Processing

Computer Vision   06/2023
Master's Project

This project includes Camera Calibration, Edge Detection, Image Blending, Pyramid, Template Matching and Vanishing Points

- Related link: https://github.com/Armin-Abdollahi/Computer-Vision

Boston house price prediction   **12/2022**

Master's Project

In this project, we developed and evaluated the performance and predictive power of a model trained and tested on data collected from houses in Boston's suburbs.

- Related link: https://github.com/Armin-Abdollahi/Boston-House-Price-Prediction

Making a shooter game with unity   **12/2021**

Bachelor's project

Making Shooter game for phone and computer with Unity

- Related link: https://github.com/Ray-Studio/Shooter-Game

Simple python projects   **08/2023**

Freelance Project

This project includes 17 codes as follows:

Binary Search Algorithm, Calculator, Countdown Timer, Currency Converter, Dice Simulation, Email Slicer, Hangman, Music Player, Password Generator, QR Code Generator, Quiz Application, Rock Paper Scissors, Snake Game, Tic Tac Toe, Typing Speed Test, Voice Recorder, YouTube Downloader

- Related link: https://github.com/Armin-Abdollahi/Simple-Python-Projects

Text Translation and Summary   **10/2023**

Freelance Project

Python project that takes the text and translates and summarizes it.

- Related link: https://github.com/Armin-Abdollahi/Translate-And-Summarize-The-Text

Web Design   **11/2020**

Freelance Project

Custom Apple website design

- Related links: https://github.com/Armin-Abdollahi/Apple-Website

W3schools website homepage design

- Related links: https://github.com/Armin-Abdollahi/W3schools

References

References available upon request.

October 25, 2023