Mohammad Hossein Mohammadi

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Research Interests

- Artificial Intelligence, Machine Learning
- Optimization Algorithm, Neural & NeuroFuzzy Network
- Computer Vision, Signal and Image Processing

Education_

Islamic Azad University, Najafabad Branch

BSc in Computer Engineering (Information Technology)

- Last 2 years' GPA 3.12/4 (15.54/20)
- Thesis Title: Semantic segmentation of breast cancer pathology images using the U-Net model Supervisor: Dr. Mehdi Jabalameli

Patents _____

2021	IR Patent. ir 139850140003011312, The system for early detection of Heterochromia disease in the	Approved
	neonates. S.Y.Moradi, <u>M.H.Mohammadi</u> .	
2020	IR Patent. ir 139850140003011419, Pocket Protector Of Sensitive Injective And Inhalant Vials Against	Approved
	Temperature And Impact Changes. S.Y.Moradi, <u>M.H.Mohammadi</u> , P.Mohammadi.	

Publications.

2020	Arna, ISBN 978-600-356-922-8, A Step-By-Step Guide to Patenting in Iran. <u>M.H.Mohammadi</u> , A.Karimi,	English
	S.Y.Moradi. [View on Amazon]	English
2021	Arna, ISBN 978-622-291-016-7, TensorFlow Tutorial. <u>M.H.Mohammadi</u> , S.Y.Moradi.	Persian
2021	Arna, ISBN 978-622-291-049-5, Basics of Artificial Intelligence. M.H.Mohammadi, S.Y.Moradi,	Persian
	M.Mohammadi.	

Selected Projects_

Emotion Recognition using Convolutional Neural Network

Python, TensorFlow, Keras, OpenCV, NumPy

- Project Summary and Goal: The project aimed to develop a Convolutional Neural Network (CNN) model capable of recognizing human emotions from facial expressions captured in images.
- Achievements: (1): Successfully trained a CNN model with high accuracy in recognizing emotions from facial expressions.
- (2): Developed a user-friendly interface for real-time emotion recognition from live video feeds.

(3): Presented the project at a local tech symposium, garnering positive feedback from peers and faculty members.

Object Recognition using Recurrent Neural Network

Python, TensorFlow, Keras, OpenCV

- Project Summary and Goal: The project aimed to develop a Recurrent Neural Network (RNN) model for object recognition in images, focusing on sequential data processing for identifying objects in videos or temporal sequences.
- Achievements: (1): Successfully trained an RNN model capable of recognizing objects in sequential data with high accuracy.
 (2): Implemented the model to detect and track objects in real-time video streams, demonstrating its practical application.
 (3): Presented the project findings at a departmental seminar, receiving commendation for innovative use of RNN in object recognition.

Automatic number-plate recognition with Deeplearning using pytorch

Python, PyTorch, OpenCV

- **Overview**: The project aimed to develop an automatic number-plate recognition system using deep learning techniques with PyTorch, focusing on accurately detecting and extracting license plate numbers from images.
- Achievements: (1): Successfully trained a deep learning model using PyTorch to recognize license plates with high accuracy, even in varied lighting and weather conditions.

(2): Implemented the system into a user-friendly application capable of processing images and extracting license plate numbers in real-time.(3): Presented the project at a regional tech expo, receiving positive feedback for the practical application of deep learning in automated systems.

Academic

May 2022

Nov 2021

Feb 2023

Academic

Najafabad, Iran

Sept 2015 – Sept 2021

Academic

Achievements

2nd Team Rank

Sharif University of Technology

Sharif University of Technology

Tehran, Iran

Sept 2019

• 7th Mobile Programming Marathon along with the "Chelesme" team members, 85 teams participated from Iran, Sharif University of Technology.

3rd Team Rank

Tehran, Iran Sept 2017

Tehran, Iran

Jan 2023 – Present

• 4th Mobile Programming Marathon along with the "Yakhmak" team members, 90 teams participated from Iran, Sharif University of Technology.

Work Experience

Product Designer (Design System Manager)

Self-Employed

• Dedicating efforts to contribute to open-source projects, along with focusing on Persianization and enhancing system design within the Figma community.

UI/UX Designer

PizzaBar

Copenhagen, Denmark

Jan 2022 – Dec 2022

• Crafting a bespoke CRM design from inception to completion, ensuring a tailored solution that addresses specific needs and functionalities with meticulous attention to detail.

Skills

Program LanguagesPython, Java, R, Matlab.Machine LearningDiscriminative and Generative Models; Reinforcement Learning; Multi-task Learning; Graph Neural Networks.Al, Big DataPyTorch, scikit-learn, Keras, TensorFlow, NumPy, Pandas, MapReduce (Hadoop).Data MiningPyData, SciPy, SQL, NoSQL(Mongo), Jupyter.Data ScienceMixed Linear Model, Hierarchical Logistic Regression, A/B Testings, Crowdsourcing (MTurk).Server, DatabaseNode.js, MongoDB, PostgreSQL, Kubernetes, Docker, Google Cloud, AWS EC2, Heroku, Azure.Web, MobileHTML/CSS/, React, Apache, Android(Java).Version ControlGit, GitHub.

Languages_

PersianNative proficiencyEnglishModerate