

Mohammad Hossein Mohammadi

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Research Interests

- Natural language processing
- Neural Networks, Deep Learning
- Computer Vision, Image Processing

Education

Islamic Azad University, Najafabad Branch

BSc in Computer Engineering (Information Technology)

Najafabad, Iran

Sept 2015 – Sept 2021

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

Patents

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

Publications

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

Selected Projects

SummarEase: Open Source Text Summarization Tool with Topic Selection

Open Source

[Project page] – [Github] – [Software] – [Colab] – [Slides] – [Video]

2024

- Is an innovative open-source project revolutionizing text summarization using deep learning methods. Users upload Word or PDF files and select a specific topic, enabling the tool to craft concise and insightful summaries tailored to the chosen subject.

AuthentiCheck: A Sophisticated System for Intelligent Text Plagiarism Detection

Open Source

[Project page] – [Github] – [Software] – [Colab] – [Slides] – [Video]

Dec 2023

- Employing advanced deep learning methods, AuthentiCheck is a sophisticated system ensuring precise and intelligent text plagiarism detection, safeguarding content integrity with unmatched accuracy.

InfoInsight ChatBot: Elevating User Conversations with Intelligent Inquiry for

Automated Information Retrieval

Open Source

[Project page] – [Github] – [Software] – [Colab] – [Slides] – [Video]

Sept 2023

- A Telegram chatbot using deep learning to engage users with intelligent inquiries, extracting valuable information for automated and efficient data retrieval.

AudioSync Harmony: Precision Text Alignment with Audio Narratives

Open Source

[Project page] – [Github] – [Software] – [Colab] – [Slides] – [Video]

Jun 2023

- This innovative project ensures accurate synchronization, enhancing the synergy between textual content and audio narratives for a richer and more immersive user experience.

VoiceCraft: Artful Transformation of Text to Dynamic Audio Narratives

Open Source

[Project page] – [Github] – [Software] – [Colab] – [Slides] – [Video]

Mar 2023

- Employs deep learning for the eloquent conversion of uploaded text files into dynamic audio narratives, featuring both male and female voices.

Achievements

2nd Team Rank

Tehran, Iran

Sharif University of Technology

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

Sharif University of Technology

Sept 2017

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

Top 2 %

Iran

The national exam of the bachelor's entrance exam

2015

- Nationwide entrance exam of Iranian Universities, very competitive with nearly 250,000 participants.

Work Experience

Product Designer (Design System Manager)

Tehran, Iran

Self-Employed

Jan 2023 – Present

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

Senior UI/UX Designer

Copenhagen, Denmark

PizzaBar

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 Languages Python, Java, R, Matlab.

Machine Learning Discriminative and Generative Models; Reinforcement Learning; Multi-task Learning; Graph Neural Networks.

AI, Big Data PyTorch, scikit-learn, Keras, TensorFlow, NumPy, Pandas, MapReduce (Hadoop).

Data Mining PyData, SciPy, SQL, NoSQL(Mongo), Jupyter.

Data Science Mixed Linear Model, Hierarchical Logistic Regression, A/B Testings, Crowdsourcing (MTurk).

Server, Database Node.js, MongoDB, PostgreSQL, Kubernetes, Docker, Google Cloud, AWS EC2, Heroku, Azure.

Web, Mobile HTML/CSS/, React, Apache, Android(Java).

Version Control Git, GitHub.

Languages

Persian Native proficiency

English Moderate

References available upon request.