

Shokufeh Yaraghi

(Curriculum Vitae)

PhD, Information Technology Engineering, Tarbiat Modares University.

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Education:

1. Ph.D.

Ph.D, Information Technology Engineering, Tarbiat Modares University, 2019- 2024,
GPA: 19.27/20. The first rank in the class.

Supervisor: Dr. Toktam Khatibi.

2. M.Sc.

M.Sc., Computer Engineering, Islamic Azad University of Arak, 2009-2011. GPA:
18.57/20 - The first rank in the class.

Supervisor: Dr. Davarpanah

Research focus

Health care Data analytics

Data analytics (including complex data and big data) with emphasis on Health datasets

Machine Learning and Deep Learning (Specially in healthcare applications) Computer vision

Medical image analysis

Physiological Signal processing

Natural language processing (NLP) Ontology engineering

Process Mining

Publications

1. Journal papers

Improved Early Detection of Keratoconus using Deep Autoencoding Feature Extraction and Stacking Ensemble Classification, *Translational Vision Science and Technology*, 2024, ISI-Q¹.

Keratoconus disease classification with multimodel fusion and vision transformer: a pretrained model approach, *BMJ Open Ophthalmol*, 2024, ISI-Q².

Asadoorian N, Yaraghi S, Tahmasian A. Pre-trained quantum convolutional neural network for COVID-19 disease classification using computed tomography images. *PeerJ Computer Science*. 2024 Oct 18;10:e2343. ISI-Q¹.

Asadoorian, N., Yaraghi, S., Tahmasian, A., Fatehifard, R., Rezazadegan, M., & Mottaghi, N. (2026). DeiT-MLP-mixer for the preoperative prediction of axillary lymph node involvement in breast cancer via ultrasound imaging. *BMC Medical Imaging*, ISI-Q¹.

2. Academic book

Practical Web Design, Shokufeh Yaraghi, Shahid Ashrafi Esfahani, 2022

Introduction to programming with C++ and Python, Shahid Ashrafi Esfahani, 2024.

Work experiences as faculty member

Faculty member of engineering department, computer engineering, Shahid Ashrafi University, (2015-till now).

Teaching experiences

Software Engineering, Shahid Ashrafi University, Engineering Department.

Advanced Programming, Engineering Department, Khomeini Shahr University.

C++ Programming, Engineering Department, Shahid Ashrafi University.

Data Mining, Engineering Department, Shahid Ashrafi University.

Machine learning, Engineering Department, Shahid Ashrafi University.

Software Skills

Python (specially packages such as Scikit-learn, pandas, numpy, keras, tensorflow, pytorch, Scikit-image, pilimage, opencv (cv2), matplotlib and seaborn, flask for web development, pyqt, tkinter, etc)

Matlab (image processing, computer vision, neural networks and deep learning)

C#

Git Version Control
