

Amir Reza Kazemloo

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Education

- Sep 2023 – now MS. Artificial intelligence engineering, K. N. Toosi University of Technology,
Cumulative GPA: 3.7

Contributed to research on domain adaptation problems in machine learning
- Sep 2017 – 2022 BSc. Electrical Engineering, K. N. Toosi University of Technology,
Cumulative GPA: 3.43/4 – last 2 year CGPA :3.78

BSc Thesis Title: Skull and scalp segmentation in neonatal cerebral MRI
using subject-specific probabilistic models. **Advisor:** Pr. Hamid
Abrishami Moghaddam

Member of MVMIP Laboratory . **Supervisor:** Pr. Hamid Abrishami
Moghaddam
- 2013 – 2017 Diploma in Mathematics and Physics , Allame Helli 11 High school, Tehran, Iran

Overall GPA: 19.62/20

Field of Interest

Medical image processing, Artificial Intelligence, Pattern recognition, Machine Learning,
Computer Vision, Neural Networks, Image Processing

Publication

- Published** Hokmabadi, E., Abrishami Moghaddam, H., Mohtasebi, M., Kazemloo, A., Gity,
M., Wallois, F. (2024). Subject-Specific Probability Maps of Scalp, Skull and
Cerebrospinal Fluid for Cranial Bones Segmentation in Neonatal Cerebral MRIs.
IRBM, 2024-08. <https://doi.org/10.1016/j.irbm.2024.100844>
- Under Revision** An intelligent sleep apnea classification system based on EEG signals

Academic Experience

At K. N. Toosi University of Technology

- Fall 2021** Teaching Assistant, **Linear Algebra**, Instructor: Dr. Behrooz Nasihatkon.
- Spring 2022** Teaching Assistant, **Fundamentals of Computer Vision**, Instructor: Dr. Behrooz Nasihatkon.
- Fall 2022** Teaching Assistant, **Pattern Recognition**, Instructor: Pr. Hamid Abrishami Moghaddam.

Related Work Experiment and Internship

Sep 2021 – now	Research Assistant in MVMIP Laboratory ,Iran
Jul 2021 – Des 2021	Internship in MVMIP Laboratory,Iran
Jul 2017 – now	Develop website with wordpress & front end as self employee

Certificates

Verified certificates from Coursera online MOOC platform

Deep Learning Specialization(5 courses)| deeplearning.ai

Machine Learning Specialization(3 courses)| Stanford university-Coursera

TensorFlow Developer Professional Certificate| deeplearning.ai

Mathematics for Machine Learning: Linear Algebra| imperial college London-Coursera

[Deep Learning | Neuromatch Academy](#)

Related Projects

Sep 2021	Skull Segmentation and Reconstruction From Newborn CT Images Using Coupled Level Sets
Jul 2021	Football game player Detection and mapping to 2D map and Classification with Neural Network(Github link)
Jun 2022	Skull and scalp segmentation in neonatal cerebral MRI using subject specific
Jan 2022	A simple graph-based semi-supervised learning approach for imbalance(Github link)
Oct 2021	Positioning by wireless signals in the building by machine learning approach(GitHub link)
Jul 2022	Simple RNN algorithm for create content of website (web site link)
Oct 2022	apnea data augmentation and classification by lstm sequential model(GitHub link)
Sep 2022 – now	Contribution on Design and development of MedVisPy , a medical desktop software developed under Python, aims to help clinics and hospitals analyze and process CT images(web site link)

Technical Skills

Programming Languages	Python(advance), html, css, SQL, C++, js
Libraries and Frameworks	OpenCV , Numpy, Tensorflow 1.x & Keras, Scikit-learn, FFmpeg, SimpleITK, Scipy, PyQt, Pandas, ANTs, skimage, matplotlib, Spm
Software, OS & Frameworks	Linux, WordPress, Git, Roboflow

Related Courses

Computer Programming: (4 out of 4)

Computer Vision and image processing : (4 out of 4)

Linear Algebra: (4 out of 4)

Digital Signal Processing : (4 out of 4)

Pattern Recognition: (4 out of 4)

Neural Network

Machine Learning

Language Proficiency

TOEFL (Test of English as a Foreign Language)

Score: 98

Date of Completion: 2021

References

Prof. Hamid Abrishami Moghaddam

Professor of AI and Biomedical Engineering

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