

Saeed Kazemi

Curriculum Vitæ

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Summary

- Strong foundation in machine learning and computer science principles
- Experience in developing and implementing machine learning and deep learning models
- Proficient in programming in Python and experience with popular libraries such as TensorFlow, Pandas, and scikit-learn
- Experience in data preprocessing, feature selection, and model evaluation
- Team player attitude with a strong desire to stay up-to-date

Skills

Advanced Git, Python, Pandas, TensorFlow, Scikit-learn, OpenCV, Altium,
Intermediate VHDL, L^AT_EX, Matlab, C/C++, Linux, Adobe Photoshop

Work Experience

Vocational

- 2020-2023 **Research Assistant**, *UNIVERSITY OF NEW BRUNSWICK*, Fredericton, NB, Canada.
- Worked as part of a team on a federally funded, multi-partner project to develop the world's first pressure-based gait biometric system
 - Utilized various techniques such as pre-processing, feature extraction, and hyperparameters optimization to enhance the performance of the models
 - Implemented deep neural networks, including CNN, 1DCNN, and transfer learning techniques
 - Experience in working with Keras, Tensorflow, and scikit-learn libraries to build ML/DL models
- 2015-2017 **Electronic Engineer**, *SALMANIAN FARS CORPORATION*, Imam Khomeini highway, Isfahan, Iran.
- Designed and verified PCBs.
 - Worked with a variety of sensors and actuators.
 - Experienced in electronic design and integration.

Teaching

- 2023 **Teaching Assistant**, *UNIVERSITY OF NEW BRUNSWICK*, Embedded System.
- 2022 **Teaching Assistant**, *UNIVERSITY OF NEW BRUNSWICK*, Signals and Systems.
- 2014 **Lecturer**, *MOHAJER TECHNICAL AND VOCATIONAL COLLEGE OF ISFAHAN*, Signals and Systems.

Selected Projects

- 2021 Implementing several approaches for time series classification as the project of "*Time Series Analysis*" course under the supervision of *Prof. Erik Scheme*.
- 2021 Implementing five ML algorithm as the project of "*Machine Learning and Data Mining*" course under supervision of *Prof. Huajie Zhang*.

- 2020 Comparing five algorithms for image registration as the project of "*Digital Image Processing*" course under the supervision of *Prof. Julian Meng*.

Educational Background

- 2020-2023 **Master of Science in Electrical Engineering**, *University of New Brunswick*, Fredericton, Canada, *GPA – A+*.
Title of Thesis: *Exploring Performance Limits for Pressure-Based Gait Biometrics*
- 2011-2014 **Master of Science in Communication**, *Isfahan University of Technology*, Isfahan, Iran, *GPA – A*.
Title of Thesis: *An Efficient Algorithm for Still and Moving Object Registration in Moving Video Camera Sequences*
- 2008–2010 **Bachelor of Science in Electronics Engineering Technology**, *Shahid Rajaei Teacher Training University*, Tehran, Iran.
Title of Thesis: *Neural Network implementation by NEFPROX in order to approximate nonlinear function to use in medical applications*

Professional Training

- 2020 **Machine Learning** online course by Stanford University on coursera.org, Instructor: Professor Andrew Ng, Completed in July 2020 ([Credential](#)).
- 2020 **Deep Learning** a 5-course specialization by Deeplearning.ai on coursera.org, Instructor: Professor Andrew Ng, Specialization Certificate earned on August 13, 2020 ([Credential](#)).
- (1) Neural Networks and Deep Learning,
 - (2) Hyperparameter tuning, Regularization, and Optimization,
 - (3) Structuring Machine Learning Projects,
 - (4) Convolutional Neural Networks,
 - (5) Sequence Models
- 2020 **Introduction to Data Science in Python** online course by University of Michigan on coursera.org, Completed in September 2020 ([Credential](#)).

Publications

- 2023 **Saeed Kazemi**, Angkoon Phinyomark and Erik Scheme, TRANSFER LEARNING FOR FLOOR SENSOR-BASED GAIT RECOGNITION, in preparation.
- 2023 **Kazemi, S.**, Phinyomark, A., Scheme, E., SAMPLE SIZE IN FLOOR SENSOR-BASED GAIT RECOGNITION FOR SMART HOME AND ACCESS CONTROL SCENARIOS, 2023 IEEE Sensors Applications Symposium, Ottawa, Canada, Jul 18-20, 2023.
- 2018 **Saeed Kazemi** and M. R. Ahmadzadeh, DPML-RISK: AN EFFICIENT ALGORITHM FOR IMAGE REGISTRATION, International Journal of Engineering (IJE), In Press.

Volunteer Work

- 2021-2022 **Executive member**, *IRANIAN CANADIAN ASSOCIATION OF NEW BRUNSWICK (ICANB)*, Fredericton, NB, Canada.
- Event planning and organizing for around 100 people
 - Helping new international students and immigrants settle in New Brunswick