Saeed Kazemi

MSC | MSEE

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Summary

- Graduated from UNB, with over 8 years of experience in both industry and academia.
- 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, LaTeX, Matlab, C/C++, Linux, Adobe Photoshop

Work Experience

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

2022-2023   **Teaching Assistant**, UNIVERSITY OF NEW BRUNSWICK, (1) Embedded System, and (2) Signals and Systems.

2017-2019   **IT Support Specialist**, MOEIN RAH GOSTAR KHORASAN COMPANY, Mashhad, Iran.
- Train and supervise technical and non-technical staff
- Provide guidance for purchasing of computer hardware, software, and supplies

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.

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

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*

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*

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 Standford University on coursera.org, Instructor: Professor Andrew Ng, Completed in July 2020 ([Credential Link](#)).

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 Link](#)).

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

References

References Available Upon Request