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Saeed Kazemi

Curriculum Vitæ

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, 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

2023 **Teaching Assistant**, *University of New Brunswick*, Embedded System.

2022 **Teaching Assistant**, *University of New Brunswick*, Signals and Systems.

2017-2020 **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

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 Standford 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