(873) 552-1235
SKazemi1@unb.ca
Skazemii.github.io
SKazemii
SKazemii

Siavash Kazemi

Resume

Summary

- Master of Electrical Engineering from UNB with over 8 years of experience in data science and related fields.
- 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

Technical Skills

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

Soft Skills

Strong Analytical, Teamwork, Highly Organized, Adaptability, Problem-solving, Time Management, Eager Learner.

Related Work Experience

2023- to Present — **Research Assistant**, *University of New Brunswick*, Fredericton, NB, Canada.
- Contributed to data validation and quality assurance in a large-scale dataset.

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

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.

2022-2023 — **Teaching Assistant**, *University of New Brunswick*, (1) Embedded System, and (2) 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*, Canada,
Courses: *Machine Learning & data Mining, Digital Image Processing, Intro to Pattern Recognition, Digital Signal Processing, Time Series Analysis, GPA – A+.*

Title of Thesis: *Exploring Performance Limits for Pressure-Based Gait Biometrics*

2014 **Master of Science in Communication**, *Isfahan University of Technology*, Iran.

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 Certificate

Machine Learning, online course by Standford University on coursera.org, Instructor: Professor Andrew Ng, Credential Link.

Deep Learning, a 5-course specialization on coursera.org, Instructor: Professor Andrew Ng, Credential Link.

(1) Neural Networks and Deep Learning
(2) Structuring Machine Learning Projects
(3) Hyperparameter tuning, Regularization & Optimization
(4) Convolutional Neural Networks
(5) Sequence Models

Introduction to Data Science in Python, online course by University of Michigan on coursera.org, Credential Link.

Publications

2023 **Kazemi, S.**, Phinyomark, A., Scheme, E., 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 **S. 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*.

References

References Available Upon Request