Siavash Kazemi

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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

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

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