

Saeb Ragani Lamooki

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[Linkedin](#) [Github](#) [Portfolio](#)

OBJECTIVE

Seeking Internship in Machine Learning and Data Science for the Summer of 2021.

SKILLS

- **Machine Learning, Deep Learning, Data Mining**
- **Statistical Analysis, Statistical Process Control**
- **Signal Processing, Time Series Analysis**
- Programming Languages: **Python, R, Matlab, Fortran**

EDUCATION

Ph.D. Candidate <i>Mechanical Engineering</i> SUNY at Buffalo	<i>Fall 2016 - present</i> Buffalo, NY
Master of Science <i>Mechanical Engineering</i> Eastern Mediterranean University	<i>2012 - 2014</i> Magusa, Turkey
Bachelor of Science <i>Mechanical Engineering</i> K.N. Toosi University of Technology	<i>2005 to 2010</i> Tehran, Iran

WORK EXPERIENCE

CFD Engineer Med-X Research Institute	<i>Sep 2014 - Jan 2016</i> Shanghai, China
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PROJECTS AND RESEARCH

Activity Recognition for Electric Line Workers from Single Wrist Sensor <i>Python</i> Scikit-learn: k -NN, SVM, Random Forest — TensorFlow: RNN, LSTM	Spring 2021
Gait Analysis from IMU Signals using Statistical Process Control Techniques <i>R</i> Hotelling's T^2 & EWMA charts	Summer 2019
Shoulder and Back Posture Analysis from IMU and Motion Capture Data <i>Matlab</i> University at Buffalo	Ongoing
Sentiment Analysis on Movie Reviews: Neural Networks and Rule-based <i>Python</i> TensorFlow: Multi Layer Perceptron	Spring 2020
Assess 5 Post-processing Measures to Improve Fairness in COMPAS ML Alg. <i>Python</i> Maximum Profit/Accuracy, Single Threshold, Predictive Parity, Demographic Parity, Equal Opportunity	Spring 2020
Programming 5 Clustering & 4 Classification Algorithms Without using Libraries <i>Python</i> Clustering: K-means, Hierarchical, Density-based, Mixture Model, Spectral Classification: k -NN, Decision Tree, Naive Bayes, Random Forest	Fall 2019

SELECTED PUBLICATIONS (GOOGLE SCHOLAR)

A Personalized and Non-parametric Framework for Detecting Changes in Gait Cycles Submitted to the Scientific Reports Journal	2020
Activity Recognition in Electric Line workers from a Single Wrist-Worn Accelerometer Submitted to the Institute of Industrial and Systems Engineers Journal	2021

TEACHING EXPERIENCE

Dynamics Systems Lab (2 semesters), Thermodynamics (4 semesters) University at Buffalo	Buffalo, NY
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