

Setareh Kazemi Kheiri

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Skills: Machine Learning, Deep Learning, Predictive Modelling, Time Series Analysis, Mathematical Modelling, Business Analytics, Design of Experiments, Statistical Process Control.

Tools: R (+reporting in R Markdown), Python (+presenting with RISE, Jupyter Notebook, Libraries: TensorFlow, PyTorch, Scikit-Learn, Keras, Seaborn, NumPy, Pandas), MATLAB, Minitab, Gurobi, Arena, @Risk, Fusion 360, CPLEX, MSP, Primavera P6.

EDUCATION

Ph.D. Industrial and Systems Engineering <i>University at Buffalo (UB) (GPA:4/4) US, NY, Buffalo</i>	2025
M.Sc. Industrial Engineering <i>Sharif University of Technology (GPA:17.35/20) IR, Tehran</i>	2017
B.Sc. Industrial Engineering <i>K.N. Toosi University of Technology (GPA:16.52/20) IR, Tehran</i>	2015

RESEARCH PROJECTS

1. (Working) Developing a sensor-based fatigue predictive model utilizing reliability modeling and federated learning. (R and Python)
2. Developed a functional regression approach to explain the variability in profiles of RPEs¹. (R)
3. Developed a privacy-preserved sensor-based human activity recognition model using deep federated learning. (Python)
4. Developed a functional ANOVA approach on the analysis of upper-limb fatigue in warehouse workers. (R)
5. Developed a PCA-based control chart and a classification technique for monitoring image-based processes. (MATLAB)

PROFESSIONAL EXPERIENCE

Research and Teaching Assistant, SUNY at Buffalo, Buffalo, NY -Research assistant for NIOSH ² -funded projects. -Recitation instructor for courses: Facilities Design, Statistical Machine Learning, Introduction to Probability and Statistics, Systems Modeling and Optimization Operations Research.	Sep 2021 – Present
Associate Business Analyst, Aviense Consulting, Tehran, Iran Conducted research and statistical analyses to provide business solutions to clients.	Dec 2020 – Jun 2021
Demand Planning Lead, Unilever Company, Tehran, Iran Led the team of demand planners, S&OP ³ procedures, and demand forecasting, Conducted risk mitigation plans, Optimized the stock level, Managed innovations, and business wastes.	Jul 2020 – Nov 2020
Demand Planning Assistant Manager, Unilever Company, Tehran, Iran	Dec 2018 – Sep 2020
Customer Service Assistant, Unilever Company, Tehran, Iran Managed the replenishment process in distribution centers.	Apr 2018 – Dec 2018

VOLUNTARY EXPERIENCE

Mentoring female high school students at the WiSE ⁵ STEM outreach program (funded by Amazon)	Sep 2023 – Present
VP of Internal and External Events at INFORMS student chapter at UB	Sep 2023 – Present

HONORS AND AWARDS

First runner-up winner at the UB SCOM⁶ case competition 2023 (Apr 2023)
First Runner-up winner of Industrial and Systems Poster competition at UB (Dec 2022)

1. Ratings of Perceived Exertion
2. National Institute of Occupational Safety and Health
3. Sales and Operations
4. Long Term Capacity Planning
5. Women in Science and Engineering
6. Supply Chain and Operations Management