ELDIN ŠAHBAZ

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SUMMARY

Accomplished data scientist with more than three years of progressive professional experience in a multinational company. Proven ability to plan and lead projects, design experiments, analyze time series and signals, conduct algorithmic research and development in artificial intelligence and machine learning, and communicate insights to stakeholders. Applied expertise in modeling complex chemical processes via chromatography and mass spectrometry data. Successfully improved mass spectrometry signal quality — reducing error by 21%.

PROFESSIONAL EXPERIENCE

Research & Development Engineer INFICON

June 2018 - Present Syracuse, New York

- · Reported on data science initiatives directly to the Senior Director of Development for Intelligent Sensor Solutions.
- · Conducted global presentations and counseled R&D teams facilitating literature searches and technical reviews.
- · Supported product development efforts conducting basic research and establishing performance benchmarks.
- · Lead and planned data science initiatives in a cross-functional environment completing 10 studies and projects.
- · Collaborated with stakeholders to elucidate research objectives and directions from high-level problem statements.
- · Interfaced with software engineers to facilitate migrating algorithmic research and findings to existing technologies.
- · Audited system performance via simulation studies covering 58% of chemical detectors and gas analyzers.
- · Devised a mass spectrometry A/B model test quantifying a 56% difference between legacy model test results.
- \cdot Improved mass spectrometry sensor performance and signal quality with a 21% reduction in estimation error.
- · Developing parameter optimization techniques for quadrupole mass filters projecting ~\$500k annual savings.

ACADEMIC APPOINTMENTS

Research Experience for Undergraduates (REU)

June 2017 - August 2017

Syracuse University \diamond Data Lab

Syracuse, New York

- · Conducted research under the supervision of Dr. Reza Zafarani (Electrical Engineering and Computer Science).
- · Formulated a repeated measures experiment querying structured and unstructured social media content.
- · Modeled expected content attention minimizing dimensionality while maximizing the cross-validation score.

EDUCATION

Syracuse University

May 2021

Non-Matriculated Graduate \diamond Mathematics

Syracuse University

May 2018

Master of Science \diamond Computer Science

May 2017

Bachelor of Science \diamond Computer Science

Summa Cum Laude

PROFESSIONAL DEVELOPMENT

Linux Foundation

Syracuse University

December 2019

Linux Kernel Internals and Development (LFD420)

Linux Foundation

June 2018

Embedded Linux Platform Development with Yorto Project (LFD460)

SKILLS & COMPETENCIES

Programming Languages Python, MATLAB, SQL, C++

Software & Tools Competency Areas PyTorch, Scikit-learn, Statsmodels, Pandas, SciPy, NumPy, Matplotlib, Linux, Git AI, Deep Learning, Machine Learning, Statistical Learning, Linear & Nonlinear Modeling, Regression, Classification, Statistics, Probability, Time Series Analysis, Statistical Signal Processing, Data Analysis, Data Mining, Data Visualization