ELDIN SAHBAZ

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SUMMARY

Accomplished data scientist with three years of progressive professional experience in a multinational company. Proven ability to plan and lead research efforts, 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 physics and electrical sensor data. Among other accomplishments, successfully improved mass spectrometry signal quality — reducing error by 21%.

PROFESSIONAL EXPERIENCE

Data Scientist	**Research & Development**	June 2018 - Present
INFICON		*Syracuse, New York*

· Delivered project development updates to the Senior Director of Development for Intelligent Sensor Solutions.
· Applied data science expertise to mass spectrometry technologies under the heading of Systems Engineer.
· Collaborated with stakeholders to elucidate tangible research objectives from high-level problem statements.
· Lead and planned data science and machine learning initiatives in an Agile and cross-functional environment.
· Counseled internal teams, e.g., facilitated literature searches, discussed approaches, and partook in reviews.
· Mined, analyzed, and visualized data to create and enhance processes — communicating findings to stakeholders.
· Teamed with scientists to integrate expert knowledge into the data processing and data modeling operations.
· Conceptualized and instituted data infrastructure and AI technologies for mass spectrometry sensor enhancement.
· Interfaced with engineers to facilitate migrating research and algorithmic findings to existing technologies.
· Identified and communicated mass spectrometer manufacturing improvements — impacting 70% of records.
· Profiled sensor performance via simulation studies — covering 58% of chemical detectors and gas analyzers.
· Reduced mass spectrometry estimation error by 21% — improving quantitative and qualitative performance.
· Presented signal processing research and results at the company-wide INFICON Data Analytics Summit.

PRESENTATIONS

Data Science for the Modular Mass Spectrometer	November 2020
INFICON Data Analytics Summit	

Get Started with Machine Learning and AI Today!	November 2020
INFICON Data Analytics Summit	

Approaches to Automatic Text Summarization	April 2018
Syracuse University iSchool Poster Session	

EDUCATION

Syracuse University	*February 2021 - May 2021*
Postgraduate ⋄ Mathematics	

Syracuse University	*August 2017 - May 2018*
Master of Science ⋄ Computer Science	

Syracuse University	*August 2014 - May 2017*
Bachelor of Science ⋄ Computer Science	Summa Cum Laude

SKILLS & COMPETENCIES

Programming Languages	Python, MATLAB, R, C/C++, SQL
Certificates	Linux Kernel Internals and Development (LFD420)
Software & Tools	PyTorch, Scikit-learn, Statsmodels, Pandas, SciPy, NumPy, Matplotlib, Linux, Git
Competency Areas	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
Soft Skills	Communication, Teamwork, Decision Making, Project Planning, Time Management