ELDIN SAHBAZ

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SUMMARY

INFICON

Recognized data science leader generating quantifiable business results in cost reduction, profitability improvement, and process optimization — delivering innovative state—of—the—art AI—powered solutions. Demonstrated experience scoping and leading projects, designing robust unbiased studies and experiments, analyzing time series and signals, composing custom machine learning and artificial intelligence models/algorithms, interfacing with cross—functional teams and communicating insights to stakeholders, and deploying models to production.

PROFESSIONAL EXPERIENCE

Data Scientist

June 2018 - Present Syracuse, New York

- · Directed technical developments with significant manufacturing optimization innovations for semiconductor sensor technologies utilizing the fastDTW, Nolds, Statsmodels.tsa, SciPy.interpolate, and SciPy.optimize Python libraries driving projected annual manufacturing cost savings in excess of US\$500k.
- · Led technical reviews to define mathematical foundations for sensor processing algorithms documenting their implementation logic and assumptions, designing an A/B test using SciPy.stats and Nolds, and delivering an improved algorithm using SciPy.optimize and Statsmodels yielding a 21% increase in sensor accuracy.
- · Managed studies examining and establishing theoretical foundations for chemical detection and monitoring systems contributing to a larger product development effort with 52% expected revenue growth.
- · Executed simulation—based A/B tests for compound identification with 50% chemical detection and monitoring system coverage synthesizing chemical data via SciPy.optimize, SciPy.stats, SciPy.integrate, and PySwarms.

INVITED PRESENTATIONS

Data Science for the 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

Syracuse University iSchool Poster Session

April 2018

EDUCATION

Syracuse University

May 2018

Master of Science | Computer Science

Syracuse University

May 2017

Bachelor of Science | Computer Science

Summa Cum Laude

SKILLS & COMPETENCIES

Programming Languages Python, MATLAB, R, SQL, C++

Software & Tools PyTorch, Scikit-learn, Statsmodels, Pandas, SciPy, NumPy, NLTK, Gensim,

openCV, Nolds, Seaborn, Matplotlib, NetworkX, billiard, ctypes, Linux, Git

Competency Areas AI, Deep Learning, Machine Learning, Statistical Learning, Linear Modeling,

Nonlinear Modeling, Numerical Optimization, Regression, Classification, Statistics, Probability, Time Series Analysis, Statistical Signal Processing, Data Anal-

ysis, Data Mining, Data Visualization, Algorithms, Design Patterns