ELDIN SAHBAZ

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SUMMARY

Data science leader with 6+ years of experience generating quantifiable business results — directing business development, stakeholder management, project management, cross–functional collaboration, and IP development. Demonstrated proficiency in delivering innovative Artificial Intelligence and Machine Learning solutions.

PROFESSIONAL EXPERIENCE

Senior Data Scientist

BP

February 2023 – Present

Denver, Colorado

· Managed business development and executed an MoU with Subsurface Technology — projecting an immediate >300% increase in project intake and a 17% increase in unconventional reservoir exploration successes.

Data Scientist INFICON

 $June\ 2018-February\ 2023$

Syracuse, New York

- Directed patent—pending advances for semiconductor sensor technologies utilizing Scikit—learn, fastDTW,
 Statsmodels.tsa, SciPy.stats, SciPy.interpolate, and SciPy.optimize provisioning Neural Processing
 Units for next—generation sensors and driving annual cost reductions forecasted to be in excess of US\$500k.
- · Invented a bijective neural network for density estimation via PyTorch yielding a 95% increase in accuracy.
- · Led efforts defining mathematical foundations for signal processing algorithms and designed an A/B test using SciPy.stats and Nolds delivering a 21% increase in sensor fidelity using SciPy.optimize and Statsmodels.
- · Established KPIs and executed A/B tests with simulated chemical data via PySwarms, SciPy.optimize, SciPy.stats, and SciPy.integrate attaining 50% coverage across chemical detection/monitoring systems.

Research Experience for Undergraduates

Syracuse University

June 2017 – August 2017

Syracuse, New York

- · Conducted research under the supervision of Dr. Reza Zafarani (Electrical Engineering and Computer Science).
- · Modeled social media popularity via Scikit-learn and NLTK reaching a 100% increase in model accuracy.

Software Engineer

Self-employed

June 2015 – September 2015

Suracuse. New York

· Sub-contracted on document management systems for government clients and a Forbes Global 2000 client.

Undergraduate Research Assistant

Syracuse University

August 2014 – May 2015

Syracuse, New York

- · Conducted research under the supervision of Dr. Ian Hosein (Biomedical and Chemical Engineering).
- · Awarded the Dean's Leadership Grant in support of ambitious undergraduate materials science research.
- · Quantified energy loss across solar cell surfaces in MATLAB using wave propagation models.

PATENTS & PUBLICATIONS

Method of Auto Tuning One or More Sensors

U.S. Patent and Trademark Office

August 2022
Patent Pending

INVITED PRESENTATIONS

Improving Mass Spectrometry Signal Accuracy INFICON Data Analytics Summit	November 2020
Get Started with Machine Learning and AI INFICON Data Analytics Summit	November 2020
Automatic Text Summarization — Deep Learning & Classical Approx Syracuse University iSchool Poster Session	aches April 2018
Characterizing Popularity Growth of Social Media Content Electrical Engineering & Computer Science REU Seminar	August 2017
PROFESSIONAL DEVELOPMENT	
Advanced Power BI — Power Query and DAX Havens Consulting	April 2023
Power BI — Reporting and Model Building Havens Consulting	February 2023
Linux Kernel Internals and Development (LFD420) The Linux Foundation	December 2019
Machine Learning for Model Predictive Control & Process Analytics $Dr.\ S.\ Joe\ Qin$	June 2019
HONORS & AWARDS	
Graduate Merit Scholarship Syracuse University	August 2017 – May 2018
Summa Cum Laude Syracuse University	May 2017
The Warren Semon Prize Syracuse University	May 2017
Dean's Leadership Grant Syracuse University	September 2014
Dean's List Syracuse University	August 2014 – May 2017
The Founders' Scholarship Syracuse University	August 2014 – May 2017
EDUCATION	
Syracuse University Master of Science Computer Science	May 2018
	May 2017
Syracuse University Bachelor of Science Computer Science	Summa Cum Laude

OpenCV, Seaborn, Matplotlib, NetworkX, AWS, SageMaker, Power BI, Linux, Git

Modeling, Numerical Optimization, Regression, Classification, Statistics, Probability,

Competency Areas AI, Deep Learning, Machine Learning, Statistical Learning, Linear & Nonlinear

Time Series, Statistical Signal Processing, Data Analysis, Data Mining