ELDIN SAHBAZ

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SUMMARY

Data science leader with 7 years of experience generating quantifiable business results — directing strategy and business development, stakeholder management, project management, and IP development. Demonstrated proficiency in delivering innovative, patent—pending, Artificial Intelligence and Machine Learning solutions.

PROFESSIONAL EXPERIENCE

Senior Data Scientist

British Petroleum (BP)

February 2023 – Present Denver, Colorado

- · Data Science Advisor to the Development Portfolio Managers identifying effective AI & ML strategies.
- · Executed an MoU with Subsurface Technology and launched a collaborative Geophysics effort generating a 300% increase in Data Science projects and a projected 17% increase in successful reservoir exploration.
- · Managed an intern's predictive maintenance initiative forecasting a 11% increase in operational savings.

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, SciPy.optimize, and SQL provisioning Neural Processing Units for next—generation sensors and driving annual cost reductions forecasted 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 | Data Lab

June 2017 – August 2017 Syracuse, New York

· Modeled social media popularity via Scikit-learn and NLTK — reaching a 100% increase in model accuracy.

Undergraduate Research Assistant

Syracuse University | Hosein Research Group

August 2014 – May 2015 Syracuse, New York

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· Awarded the Dean's Leadership Grant in support of research quantifying energy loss across solar cells.

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 Approaches April 2018 Syracuse University iSchool Poster Session

Characterizing Popularity Growth of Social Media Content

Electrical Engineering & Computer Science REU Seminar

PROFESSIONAL DEVELOPMENT

Advanced Power BI — Power Query and DAX

Havens Consulting

Power BI — Reporting and Model Building

Havens Consulting

Linux Kernel Internals and Development (LFD420)

The Linux Foundation

Machine Learning for Model Predictive Control & Process Analytics

Dr. S. Joe Qin

HONORS & AWARDS

Graduate Merit Scholarship

Syracuse University

Summa Cum Laude

Syracuse University

The Warren Semon Prize

Syracuse University

Dean's Leadership Grant

Syracuse University

Dean's List

Syracuse University

The Founders' Scholarship

Syracuse University

EDUCATION

Syracuse University

Master of Science | Computer Science

Syracuse University

Bachelor of Science | Computer Science

SKILLS & COMPETENCIES

Software & Tools

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

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

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

August 2017

April 2023

February 2023

December 2019

June 2019

August 2017 - May 2018

May 2017

May 2017

September 2014

August 2014 – May 2017

August 2014 - May 2017

May 2018

May 2017

Summa Cum Laude

AWS SageMaker, Linux, Git, Python, PyTorch, Scikit-learn, Statsmodels, Pandas,

SciPy, NumPy, NLTK, Gensim, OpenCV, Seaborn, Matplotlib, NetworkX