ELDIN SAHBAZ

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SUMMARY

- Upstream O&G Data Science leader and Program Manager with 7+ years of experience specializing in seismic imaging, reservoir characterization, production forecasting, and drilling & completions efficiency.
- Generated US\$20MM annually in value and secured a 63% market share in new AI developments across British Petroleum's US onshore O&G business. Delivered patent-pending AI solutions — valued at US\$500k+ annually — in computational chemistry for INFICON's Semiconductor business.

PROFESSIONAL EXPERIENCE

Senior Data Scientist; Program Manager British Petroleum (BP)

February 2023 – Present

Denver, Colorado

- · Directed strategy and execution for BP US onshore Data Science and ML Engineering achieving 47% market share in Exploration & Development and enabling the team's 63% market share across the division.
- Generated US\$20MM annually in value for Reservoir Engineering's EOR initiatives delivering the ML Refracturing Estimator and increasing confidence in the Business Unit's Development program by 500%.
- · Founded the strategic partnership with Subsurface Technology and launched Geoscience initiatives modeling depositional systems — expected to yield **US\$5.5MM annually** for an asset's Development program.

Data Scientist INFICON

June 2018 – February 2023 Suracuse, New York

- · Directed patent-pending advances for semiconductor sensor technologies and provisioned Neural Processing Units for next-generation sensors — driving annual cost reductions forecasted in excess of US\$500k.
- · Invented the Bijective Neural Architecture for density estimation yielding a 95% increase in accuracy.
- · Led efforts defining mathematical foundations for signal processing algorithms and designed A/B tests 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.

PATENTS & PUBLICATIONS

Method of Auto Tuning One or More Sensors

August 2022

U.S. Patent and Trademark Office

Patent Pending

PROFESSIONAL DEVELOPMENT

Core Analysis Workshop

December 2023

UT Austin Bureau of Economic Geology

Advanced Power BI — Power Query and DAX

April 2023

Havens Consulting

Power BI — Reporting and Model Building

February 2023

Havens Consulting

Linux Kernel Internals and Development (LFD420)

December 2019

The Linux Foundation

Machine Learning for Model Predictive Control & Process Analytics June 2019 Dr. S. Joe Qin Embedded Linux Development with Yorto Project (LFD460) June 2018 The Linux Foundation INVITED PRESENTATIONS Improving Mass Spectrometry Signal Accuracy November 2020 INFICON Data Analytics Summit Introduction to AI and Machine Learning November 2020 INFICON Data Analytics Summit Automatic Text Summarization — Deep Learning & Classical Approaches April 2018 Syracuse University iSchool Poster Session Characterizing Popularity Growth for Social Media Content August 2017 Electrical Engineering & Computer Science REU Seminar **HONORS & AWARDS** Graduate Merit Scholarship August 2017 – May 2018 Syracuse University Summa Cum Laude May 2017 Syracuse University The Warren Semon Prize May 2017 Syracuse University Dean's Leadership Grant September 2014 Syracuse University Dean's List August 2014 – May 2017 Syracuse University The Founders' Scholarship August 2014 – May 2017

Syracuse University

EDUCATION

Syracuse University May 2018

Master of Science | Computer Science

Syracuse University May 2017

Summa Cum Laude Bachelor of Science | Computer Science

SKILLS & COMPETENCIES

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

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

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