ELDIN SAHBAZ

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SUMMARY

- Experienced Program Manager and Data Scientist with 7+ years of experience establishing and scaling enterprise level Agile teams — spearheading substantial AI-driven initiatives across multiple organizations.
- Led the team's 63% market share in AI initiatives across British Petroleum's US onshore O&G business and independently produced US\$20MM in annual value. Delivered patent-pending AI solutions in computational chemistry — valued at US\$500k+ annually — for INFICON's Semiconductor business.

PROFESSIONAL EXPERIENCE

Senior Data Scientist; Program Manager

British Petroleum (BP)

Denver, Colorado

February 2023 – Present

- · Directed and executed strategy 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%.
- · Launched the strategic partnership with Subsurface Technology for Geophysics & Geoscience, modeling unconventional depositional systems — expected to yield **US\$5.5MM annually** for the 2BSS asset program.
- · Managed and deployed the Long-term Production Risk Assessment Simulation tool for Reservoir Engineering.
- · Oversaw the AWS migration for PowerBI reports monitoring the Productivity Index and Saltwater Disposal.

Data Scientist INFICON

June 2018 - February 2023 Syracuse, New York

- · Delivered 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

U.S. Patent and Trademark Office

August 2022 Patent Pending

PROFESSIONAL DEVELOPMENT

Core Analysis Workshop

UT Austin Bureau of Economic Geology

April 2024/December 2023

EDUCATION

Syracuse University

May 2018

Master of Science | Computer Science

Syracuse University

Bachelor of Science | Computer Science

May 2017

Summa Cum Laude

SKILLS & COMPETENCIES

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

NumPy, NLTK, Gensim, OpenCV, Seaborn, Matplotlib, SLB Techlog

Competency Areas AI, Deep Learning, Machine/Statistical Learning, Linear & Nonlinear Modeling, Numerical

Optimization, Regression, Classification, Statistics, Probability, Time Series, Statistical Signal

Processing, Data Analysis, Data Mining, Agile, CRISP-DM