# 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)

February 2023 – Present

- Denver, Colorado
- · Directed and executed strategy for BP US on shore 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 an 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.
- $\cdot$  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