# 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

### Program Manager

British Petroleum (BP)

 $November\ 2023-Present$ 

Denver, Colorado

- · 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.
- · 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.

## Senior Data Scientist

British Petroleum (BP)

February 2023 – Present Denver, Colorado

- · 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.

## **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

 ${\bf Advanced~Power~BI-Power~Query~and~DAX}$ 

April 2023

Power BI — Reporting and Model Building February 2023 Havens Consulting Machine Learning for Model Predictive Control & Process Analytics June 2019 Dr. S. Joe Qin INVITED PRESENTATIONS November 2020 Improving Mass Spectrometry Signal Fidelity 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 August 2017 - May 2018 Graduate Merit Scholarship 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 2017Syracuse University The Founders' Scholarship August 2014 - May 2017 Syracuse University

## **EDUCATION**

Syracuse University May 2018

Master of Science | Computer Science

Syracuse University
Bachelor of Science | Computer Science
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