ELDIN SAHBAZ

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SUMMARY

Program Manager and Data Scientist with **7+ years of proven success** establishing and scaling transformative, enterprise—level, AI/ML initiatives across the Petroleum and Semiconductor industries. Led the Data Science team's **63% market share** in AI developments across British Petroleum's US onshore O&G business and independently produced **US\$997MM in value**. Delivered **patent—pending** AI solutions in computational chemistry — **valued at US\$500M+ 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 AWS PowerBI report migration monitoring the **Productivity Index** and **Salt Water Disposal**.

Senior Data Scientist

British Petroleum (BP)

February 2023 – Present Denver, Colorado

- · Generated US\$977MM in the Bone Spring formation with a US\$700MM NPV well development plan, US\$250MM in Drilling & Completions cost reductions, and US\$27MM in core collection cost savings—launching ML Lithology Prediction & Recognition and enabling regional fluid mobility assessments.
- · Drove 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%.

Data Scientist

INFICON

June 2018 – February 2023 Syracuse, New York

- Directed the Automated Sensor Calibration development program for semiconductor sensor technologies —
 delivering patent—pending advances driving annual cost reductions forecasted in excess of US\$500M.
- · 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

USPTO Application 18/686,753

February 2024
Patent Pending

PROFESSIONAL DEVELOPMENT

Core Analysis Workshop

UT Austin Bureau of Economic Geology

April 2024/December 2023

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 Neural Attention for Seismic Data Processing July 2024 BP Geophysics R&D Seminar Improving Mass Spectrometry Signal Fidelity 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 **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

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