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 Syracuse, 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 SciPv.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

December 2023

EDUCATION

Syracuse University

Master of Science | Computer Science

May 2018

Syracuse University

Bachelor of Science | Computer Science

May 2017 Summa Cum Laude

SKILLS & COMPETENCIES

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

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, Sta-

tistical Signal Processing, Data Analysis, Data Mining