ELDIN SAHBAZ

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SUMMARY

- Exploration & Development Data Science leader with **7+ years of experience** delivering **multimillion—dollar** initiatives and driving **patent—pending** Artificial Intelligence and Machine Learning solutions.
- Proven ability to direct Data Science strategy, business development, and project management within British Petroleum's (BP) upstream oil & gas division specializing in the areas of seismic imaging, reservoir characterization, production forecasting, and drilling & completions efficiency.

PROFESSIONAL EXPERIENCE

Senior Data Scientist

February 2023 – Present

Denver, Colorado

British Petroleum (BP)

· 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\$10MM US\$20MM annually in value for Reservoir Engineering 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 delivered the Neural Probabilistic Seismic Imaging model expected to generate US\$1.5MM annually in drilling & completions efficiency.
- · Championed AI/ML Geoscience initiatives in collaboration with Subsurface Technology for depositional facies modeling poised to yield an **annual gain of US\$5.5MM** to a Business Unit'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 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

EDUCATION

Syracuse University

May 2018

Master of Science | Computer Science

Syracuse University

May 2017

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, NetworkX

Competency Areas AI, Deep Learning, Machine Learning, Statistical Learning, Linear & Nonlinear Modeling, Numerical Optimization, Regression, Classification, Statistics, Probability, Time Series, Statistical Signal Processing, Data Analysis, Data Mining