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 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 British Petroleum (BP) 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\$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 launched Geoscience initiatives modeling depositional systems — expected to yield US\$5.5MM annually for an asset's Development program.
- · Managed an intern-led project for ESP predictive maintenance driving efforts enhance production efficiency.

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

August 2022

U.S. Patent and Trademark Office

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