ELDIN SAHBAZ

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SUMMARY

Data science leader with 7 years of experience generating quantifiable business results — directing strategy and business development, stakeholder management, project management, and IP development. Demonstrated proficiency in delivering innovative, patent-pending, Artificial Intelligence and Machine Learning solutions.

PROFESSIONAL EXPERIENCE

Senior Data Scientist

British Petroleum (BP)

February 2023 – Present Denver, Colorado

- · Data Science Advisor to Portfolio Managers gaining a 20% market share in exploration & development.
- · Founded an MoU with Subsurface Technology and launched a joint Geophysics initiative generating a 300% increase in Data Science projects and a projected 17% increase in successful reservoir exploration.
- · Managed an intern's predictive maintenance effort forecasting an 11% increase in operational savings.

Data Scientist

INFICON

June 2018 – February 2023 Syracuse, New York

- · Directed patent-pending advances for semiconductor sensor technologies utilizing Scikit-learn, fastDTW, Statsmodels.tsa, SciPy.stats, SciPy.interpolate, SciPy.optimize, and SQL — provisioning Neural Processing Units for next-generation sensors and driving annual cost reductions forecasted in excess of US\$500k.
- · Invented a bijective neural network for density estimation via PyTorch yielding a 95% increase in accuracy.
- · Led efforts defining mathematical foundations for signal processing algorithms and designed an A/B test 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.

Research Experience for Undergraduates

Syracuse University | Data Lab

June 2017 – August 2017 Syracuse, New York

· Modeled social media popularity via Scikit-learn and NLTK — reaching a 100% increase in model accuracy.

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

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

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, Probabil-

ity, Time Series, Statistical Signal Processing, Data Analysis, Data Mining