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 the Development Portfolio Managers identifying effective AI & ML strategies.
- · 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

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, Probabil-

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