ELDIN SAHBAZ

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SUMMARY

Data science leader with 6+ years of experience generating quantifiable business results — directing business development, stakeholder management, project management, cross–functional collaboration, and IP development. Demonstrated proficiency in delivering innovative Artificial Intelligence and Machine Learning solutions.

PROFESSIONAL EXPERIENCE

Senior Data Scientist

February 2023 – Present Denver. Colorado

BP

- · Managed business development and executed an MoU with Subsurface Technology projecting an immediate >300% increase in project intake and a 17% increase in unconventional reservoir exploration successes.
- · Applying machine learning to enhance emissions detection via Scikit-learn, Imbalanced-learn, and SQL.
- · Mentoring a Data Science intern providing guidance and support throughout their internship program.

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

June 2017 – August 2017

Syracuse University | Data Lab

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

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, Probabil-

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