# ELDIN SAHBAZ

Denver, Colorado, USA +1 (607) 597-9607 | sahbaz.eldin@gmail.com eldin.home.blog | linkedin.com/in/eldinsahbaz | github.com/eldinsahbaz

## **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

February 2023 – Present

British Petroleum (BP)

Denver, Colorado

- · Data Science Advisor to the Development Portfolio Managers identifying effective AI & ML strategies.
- Executed an MoU with Subsurface Technology and launched a collaborative Geophysics effort generating a 300% increase in Data Science projects and a projected 17% increase in successful reservoir exploration.
- · Managed an intern's predictive maintenance initiative forecasting a 11% increase in operational savings.

**Data Scientist** 

June 2018 – February 2023

*INFICON* 

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-

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