# ELDIN SAHBAZ

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#### **SUMMARY**

Program Manager and Data Scientist delivering \$1.54B with 8 years of proven experience. Established and scaled enterprise-level Digital Transformations across the Petroleum and Semiconductor industries. Delivered core engineering AI solutions for British Petroleum and enabled Data Science's 69% AI market share within BP US Onshore Upstream O&G. Produced \$500M+ via a patent-pending computational chemistry solution for INFICON's Semiconductor business.

#### PROFESSIONAL EXPERIENCE

### Program Manager

British Petroleum (BP)

November 2023 – Present

Denver, Colorado

- · Acquired 52% of Exploration & Development's AI/ML market and enabled the team's 69% AI/ML market share across the organization — spearheading in-house AI development & Digital Transformation strategy.
- · Delivered 100% of the Q2/Q3 Agile Features in Data Science, Generative AI, and Machine Learning Engineering.
- · Architected key partnerships with the Subsurface Technology Team and the Head of Performance Optimization.
- · Orchestrated internal forums with Digital Transformation Leaders across Saudi Aramco, ADNOC, and the U.S. DOE.

### **Product Owner**

British Petroleum (BP)

November 2023 - Present Denver, Colorado

- · Realized \$4MM in annual cost reductions prioritizing developer resources to build and deploy ML Sand Flowback.
- · Coordinated stakeholder timelines and prioritized developer resources launching ML Drilling AFE Cost Prediction.
- · Productionalized Long-term Production Risk for Subsurface Technology Reservoir Engineering via Streamlit.
- · Coordinated between **BP** and the **US Department of Energy** on integrating technology for produced water optimization.
- · Oversaw the Azure to AWS cloud migration for the Salt Water Disposal and Productivity Index Power BI reports.

#### Senior Data Scientist

British Petroleum (BP)

February 2023 - Present

- Denver, Colorado · Generated \$977MM for Permian with a \$700MM NPV well development plan and \$277MM Drilling & Completions
- cost reductions by productionalizing Techlog AI Electrofacies enabling well prospecting and fluid mobility assessments. · Delivered \$540MM NPV for Permian Reservoir Engineering — deploying Permian AI Completions Optimization.
- · Drove \$20MM NPV for Eagle Ford Reservoir Engineering launching ML Refracturing Production Forecasting.
- · Collaborated with **Subsurface Technology** to address Eagle Ford wellbore instability projecting a **\$60MM** cost savings.

#### **Data Scientist**

*INFICON* 

June 2018 - February 2023 Syracuse, New York

- · Directed \$500M+ in forecasted annual cost reductions and provisioned Neural Processing Units to support patent pending Automated Sensor Calibration advances directly on next-generation semiconductor sensor technologies.
- · Led a 21% enhancement in Mass Spec signal fidelity (SciPv.optimize/Statsmodels), designed A/B Quality Control tests (SciPy.stats/Nolds) for all Mass Spec sensors, and documented mathematical foundations for proprietary algorithms.
- · Established 50% coverage across chemical detection and monitoring systems designing KPIs and executing A/B simulation tests via synthetic GC-MS data generated using PySwarms and SciPy.optimize, SciPy.stats, and SciPy.integrate.
- · Achieved a 95% increase in density estimation accuracy creating the Bijective Neural Architecture via PyTorch.

# Technology Analyst

JPMorgan Chase & Co.

June 2016 – August 2016

Jersey City, New Jersey

Developed project business cases alongside senior team members and deployed code to live internal JPMC applications.

# Software Engineer

Self-employed

June 2015 - September 2015 Syracuse, New York

· Engineered information retrieval systems as a subcontractor for **British Petroleum (BP)** and a **County Government**.

# Undergraduate Research Assistant

Syracuse University | Hosein Research Group

August 2014 - May 2015 Syracuse, New York

· Awarded the **Dean's Leadership Grant** supporting simulation studies quantifying energy loss across solar cell surfaces.

PATENTS & PUBLICATIONS Method of Auto Tuning One or More Sensors August 2023  $USPTO\ Application\ 18/686,753$ Patent Pending INVITED PRESENTATIONS Neural Attention for Seismic Data Processing July 2024 BP Geophysics R&D Seminar Improving Mass Spectrometry Signal Fidelity November 2020 INFICON Data Analytics Summit Automatic Text Summarization — Deep Learning & Classical Approaches April 2018 Syracuse University iSchool Poster Session PROFESSIONAL DEVELOPMENT Core Analysis Workshop April 2024/December 2023 UT Austin Bureau of Economic Geology Advanced Power BI — Power Query and DAX April 2023 Havens Consulting Power BI — Reporting and Model Building February 2023 Havens Consulting HONORS & AWARDS Graduate Merit Scholarship August 2017 - May 2018 Syracuse University May 2017 Summa Cum Laude Syracuse University The Warren Semon Prize May 2017 Syracuse University Dean's Leadership Grant September 2014 Syracuse University Dean's List August 2014 – May 2017 Syracuse University The Founders' Scholarship August 2014 – May 2017 Syracuse University **EDUCATION** 

Syracuse University May 2018 Master of Science | Computer Science

Syracuse University May 2017 Bachelor of Science | Computer Science Summa Cum Laude

#### SKILLS & COMPETENCIES

Business Strategy, Business Development, Stakeholder Management, Change Management, Agile, OKRs, CRISP-DM Technical Artificial Intelligence, Deep Learning, Transfer Learning, Machine Learning, Linear & Nonlinear Modeling, Numerical Optimization, Regression, Classification, Statistics, Probability, Monte Carlo, Time Series, Statistical Signal Processing, Data Collection, Data Preprocessing, Data Analysis, Data Wrangling, Data Mining Tools Amazon SageMaker, Linux, Git, Python, R, PyTorch, Scikit-learn, Pandas, SciPy, Statsmodels, NumPy, NLTK, Gensim, OpenCV, Seaborn, Matplotlib, SLB Techlog, Atlassian Jira, Azure DevOps