+966541699490 Dhahran, Saudi Arabia saleh.z.atwah@gmail.com

Saleh Z. Alatwah

Subsurface/Geo Data Scientist

Website: atwahsz.github.io github.com/atwahsz linkedin.com/in/saleh-al-atwah

A Subsurface/Geo Data Scientist with a passion for AI, machine learning, and deep learning, driving data-driven approaches in integrated static-dynamic reservoir characterization and geological modeling across the Oil & Gas and Mining industries. Highly experienced in AI, machine learning, and deep learning, with demonstrable robust cross-discipline expertise, working with integrated knowledge across all subsurface and engineering upstream disciplines, through the exploration, development, and mining life-cycles. Eager to apply these skills in the Mining industry, focusing on geological modeling, resource estimation, mine planning, and operational optimization while prioritizing safety through data-driven hazard identification and risk mitigation.

EDUCATION

Master of Science in Geo-Energy Engineering, *Delft University of Technology (TU Delft)* **Bachelor of Science in Geology**, *University of Tulsa*

Sep 2021 - Aug 2023 Sep 2009 - May 2013

TECHNICAL EXPERIENCE

Geosteering Geologist

July 2013 — June 2014

Saudi Aramco

Eastern Province, Saudi Arabia

- Geo-steered horizontal wells in the targeted reservoir to maximize hydrocarbon production
- Minimize productivity loss.
- · Prevent environmental hazards.

Exploration Geologist

Saudi Aramco

June 2014 — July 2016

Eastern Province, Saudi Arabia

- 1D, 2D, and 3D Reservoir characterization and modeling.
- Regional mapping to build geological models for resource/risk assessment.
- · Provided prospect generation subsurface evaluations.
- Seismic Imaging including 3D & 2D seismic processing.

Subsurface/Geo Data Scientist

Saudi Aramco

June 2014 — Present

Eastern Province, Saudi Arabia

- Field-scale and regional-scale modeling
- CNN and Transformer-based deep learning for 3D geological modeling
- AI-driven fracture modeling
- Probabilistic machine learning for facies prediction
- Saturation height modeling
- · Advanced mathematical modeling
- · Combining static and dynamic data for decision-ready models
- Stakeholder-focused model delivery and communication

Data ScientistJanuary 2018 — PresentFreelanceEastern Province, Saudi Arabia

• Building Machine Learning and Deep Learning models to predict insights of clients data and create value.

TECHNICAL SKILLS

Languages Python, R, Julia, Git, ŁTĘX, MarkDown, HTML, Bash

Machine LearningPandas, NumPy, PyTorch, TensorFlow, scikit-learn, OpenCVGeological SoftwarePetrel, Techlog, RMS, Opendtect, Geolog, ArcGIS, QGIS

Other Linux, Dockers, Distributed Systems, MySQL, Adobe Photoshop, Adobe Ilustrator

ACHIEVEMENTS, AWARDS AND PUBLICATIONS

IBM Certified Professional Data Scientist

July 2020

click here for credential

Patent: "System and method for detection of carbonate core features from core images"

March 2020

• Patent Granted, using AI in geoscience. click here for google patents link

Barrel Awards Winner July 2015

• Won the barrel awards competition for the best hydrocarbon prospect in Saudi Aramco

Well-Log-Based Reservoir Property Estimation With Machine Learning: A Contest Summary

February 2022

Journal Paper

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Using Sentiment Analysis to Evaluate First-year Engineering Students Teamwork Textual Feedback"

March 2022

he purpose of this research is to investigate the possibility of using SA as a method for evaluating collaborative textual feedback (eg, comments) from students and to assist teachers in evaluating teamwork dynamics in their classrooms.. Conference Paper

A.N. Murray Award in Geosciences

May 2012

· Outstanding academic achievement as an undergraduate

EAGE GeoHack

Dec 2019

• Won EAGE hackathon held in Manama, Bahrain.

SPWLA machine learning competition

July 2021

Scored 4th Place.