



Principles and Application of Machine Learning in Geosciences Workshop hosted by SAGA

About the workshop

Machine learning is a branch of artificial intelligence that is based on the idea that computer systems can learn from data, identify patterns and make decisions with minimal human intervention.

Machine learning is increasingly attracting the attention of academia, industry, government and other organisations where it is generally used to analyse large and generally complex datasets, commonly referred to as “big data” to make reliable statistical predictions.

In this workshop we will demonstrate principles of machine learning, application of mathematical and statistical algorithms in machine learning and the role of machine learning in geosciences with special emphasis to exploration of mineral deposits.

A practical case study will be presented to aid the understanding. We will also provide some technical guidelines on the use of some of the commonly used open-source technologies.



Who is it for?

The Workshop is aimed at:

- Industry Professionals in the fields of Mining, Exploration Geology, Geophysics and Computational Sciences
- Academics
- 4th year and Post-graduate students

WHEN: Friday, 30th August 2019 from 9am to 3pm

VENUE: The Mandela Mining Precinct
Cnr Carlow & Rustenburg Rd
AUCKLAND PARK

COST:

- The workshop is free for paid-up SAGA members
- Non-SAGA members R500.00
- Lunch and morning tea included

The Event is limited to 50 people so first come first serve.

RSVP admin@sagaonline.co.za by 19 August 2019



Presenter Introduction

Glen Nwaila



UNIVERSITY OF THE
WITWATERSRAND,
JOHANNESBURG



Biography: Dr. Glen Nwaila is a geoscientist with multi-disciplinary experience in geology and process engineering. His formal education includes various qualifications that span: BSc (Hons.) in Geology, MSc in Chemical Engineering, N.Dip. Courses in Analytical Chemistry and Metallurgy and a Dr. rer. nat. in Geology (Magna Cum Laude).

He was appointed lecturer of economic geology in January 2018 at the University of the Witwatersrand. In this role, he teaches economic geology to both under- and post-graduate students. Additionally, Glen supervises post-graduate students on multi-disciplinary projects that involves geology, geophysics and process engineering.

He currently serves as a member of the Reference Group in the Water Research Commission. In his time with the University, Glen has been a strong advocate for machine learning and numerical modelling in geosciences.

Prior to joining the University of the Witwatersrand, Glen has worked for 10 years in various consulting and mining companies. He received the SA rising star award in mining and metals in 2014 and many best-achiever awards from various private companies and universities.