

Through our **machine learning platform** and **applied science consultancy** we are equipping the global mining and civil engineering industries with the next era of deep tech.

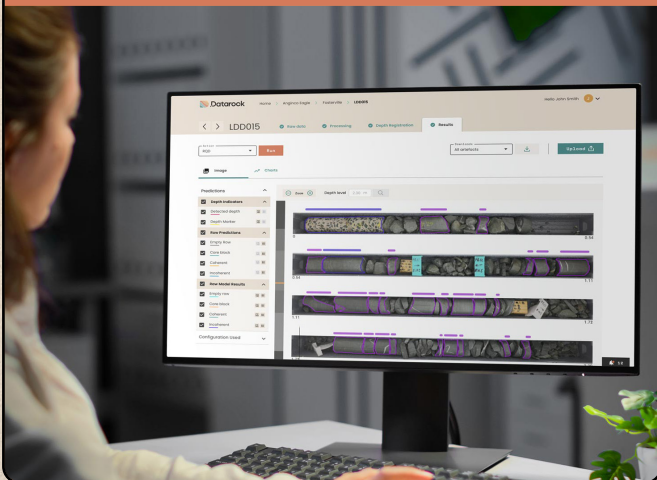


Platform

The Datarock platform uses state of the art machine learning technology to generate consistent, high resolution and quantitative datasets from drill core imagery.

Applied Science

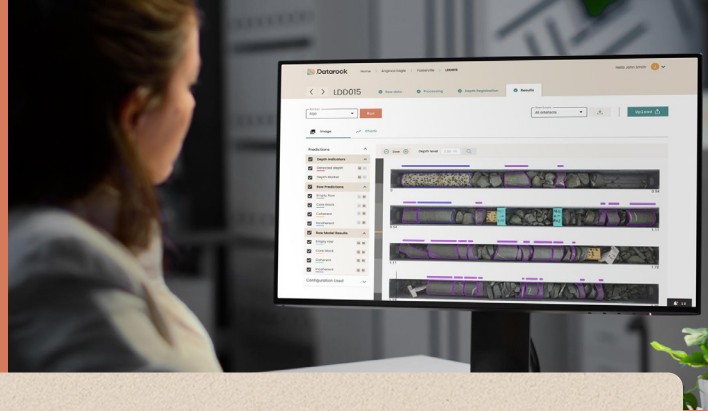
Grounded by a geoscience-first mindset, we solve mining and exploration problems using a combination of geoscience expertise and advanced machine-learning techniques, providing insights to inform critical decisions and extract value from geoscience data.



Contact

Turning core imagery into data

As a mining technology company, we build productionised machine learning solutions for the mining industry. These solutions extract valuable geological and geotechnical information from imagery, video and point clouds.



What we can do



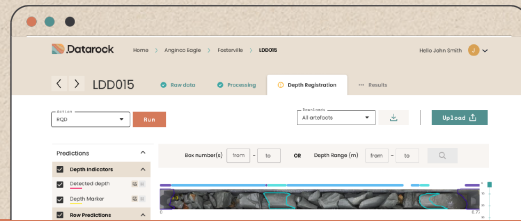
- RQD
- Fracture frequency
- Fracture orientation
- Fracture analysis
- Joint set analysis
- Weathering
- Geological strength index (GSI)



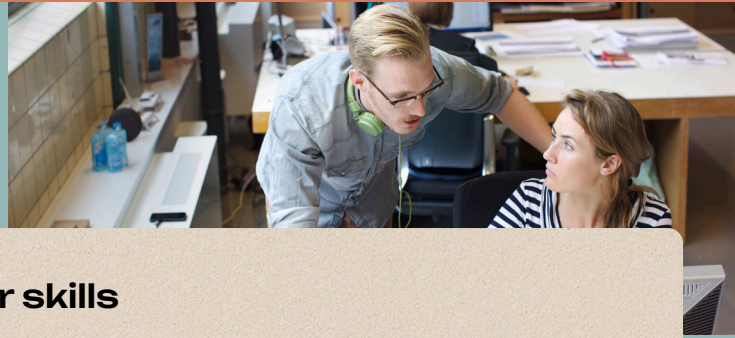
- Lithology
- Alteration
- Texture
- Mineralisation
- Vein mapping
- Sulphides
- Mineral segmentation

How does it work?

- 1. Mark up**
Add metre marks and measure core loss
- 2. Photo**
Take a high quality and consistent photograph
- 3. Upload**
Imagery is automatically or manually imported into Datarock
- 4. Interact**
Geologist and geotechnical engineers can review, add and modify predictions as required
- 5. Process**
Machine learning models analyse the core imagery to produce geological & geotechnical products
- 6. Database**
Upload version controlled and approved data to database



We solve mining and exploration problems



Our people are our advantage

Our diverse Applied Science team has broad experience and expertise across multiple geoscience, data science and machine learning disciplines, with experience across the minerals, oil and gas, government and academic sectors.



Our specialists include Geologists, geophysicists, ML engineers, data scientists & many, many more

Our skills

Domain expertise is vital for the successful application of machine learning to the geoscience industry.

- Geological data specialists
- Geological modelling and synthesis
- Geophysical Modelling management
- Geochemical processing and modelling
- QGIS and data science training
- Cloud Computing
- Geospatial data analysis
- Statistical analysis
- Computer vision

What we can do

- ✓ Near miss modelling
- ✓ Geomet modelling and domaining
- ✓ Prospectivity modelling
- ✓ Geophysical similarity and characterisation
- ✓ Data integration
- ✓ Hyperspectral processing and modelling
- ✓ Geological property predictions and domaining
- ✓ Geological characterisation
- ✓ ML application development
- ✓ Understandable ML

