

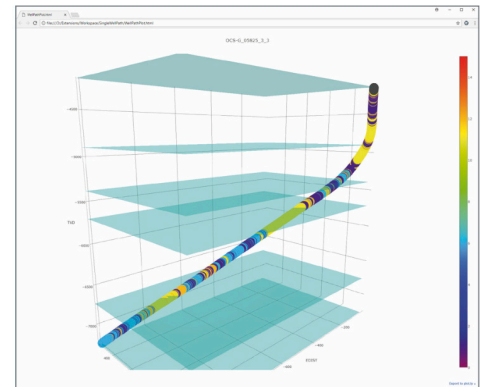
## Solve Your Toughest Petrophysical Challenges

**PowerLog** from GeoSoftware helps you successfully apply machine learning and deep learning techniques:

- Facies classification, supervised and unsupervised
- Unbalanced sampling algorithms to eliminate bias
- Data loading, analysis, and migration

Machine learning enables clearer reservoir understanding and faster, more efficient data analysis so you can:

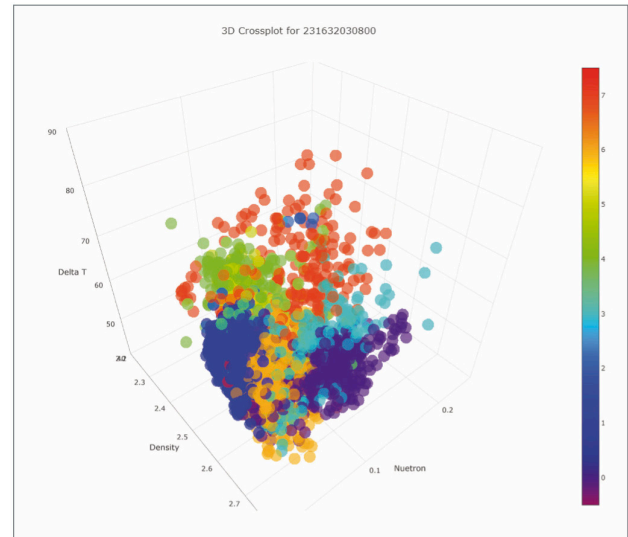
- Predict curves based on existing log data
- Correlate core analysis to log data
- Model complex porosity and permeability relationships





### Facies Classification

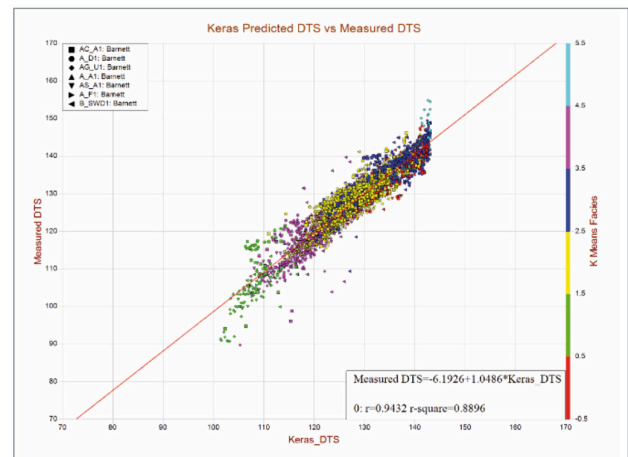
- Run unsupervised facies classification machine learning algorithms utilizing a workflow that:
- Includes sub-facies clustering and data analysis for choosing an optimum number of clusters
- Can access all data in the database for selected projects and wells
- Generates the facies and produces a series of analytical plots for assigning the unsupervised facies
- Enables geoscientists to generate high-quality facies logs on multiple wells simultaneously



### Generate Missing Curves (Delta T Shear)

Predict missing curves using a GeoSoftware-provided deep learning workflow that you can easily adapt for your specific needs. In addition, Python-knowledgeable interpreters can build custom deep learning workflows. Shear velocity is often required for seismic modeling, and accurate modeling of missing Delta T Shear curves is a critical part of the process.

Leverage the full potential of machine learning technology from GeoSoftware – a powerful advantage throughout the field lifecycle.



### Operating System Requirements:

Windows 7 and Windows 10

### Recommended Minimum Hardware:

8 gigabytes of Ram, 16 gigabytes recommended

### Interoperability:

Works in PowerLog®