APRENMIN
OTEC

AsGeoMin

Fundamentos de Machine Learning para Geometalurgia

Numpy

24 de abril al 4 de mayo 2023

Agenda

Machine Learning basis

python™

NumPy

pandas

matplotlib

seaborn

Case study

Univariate Exploratory Data Analysis (EDA)

Data Preparation

Regression model (proxy) for geometallurgical parameter Ai

Numpy

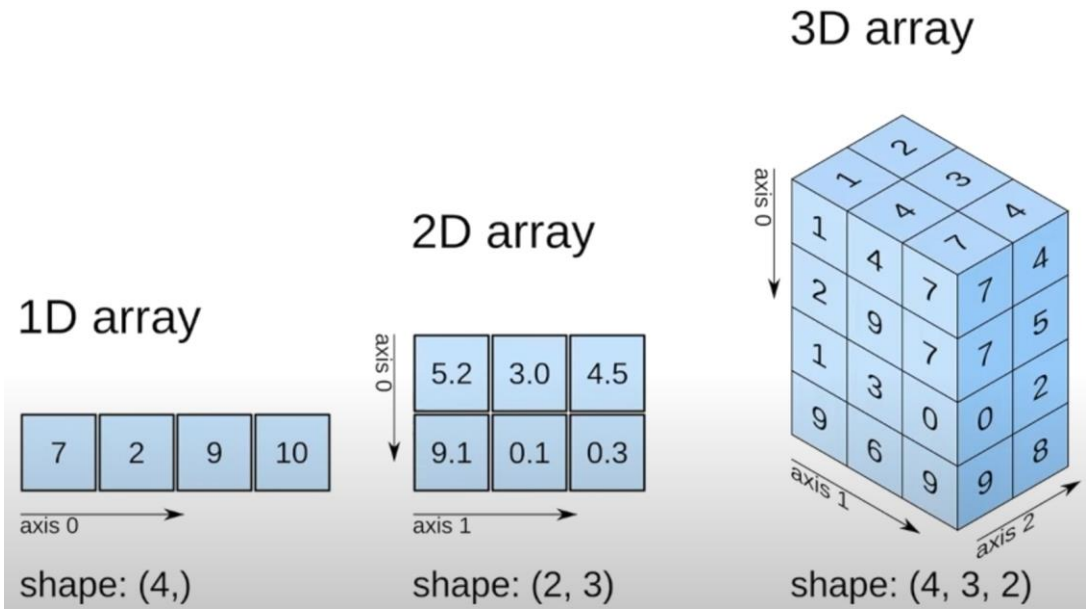
NumPy (**Num**erical **Py**thon) is a library for Python, adding support for large, multi-dimensional arrays and matrices, along with a large collection of high-level mathematical functions to operate on these arrays.

Numpy is the universal standard for working with numerical data in Python and is used in almost every field of science and engineering.

Source: https://en.wikipedia.org/wiki/NumPy

Array

Central data structure of the NumPy library. An array is a grid of values and it contains information about the raw data, how to locate an element, and how to interpret an element.



Source: https://en.wikipedia.org/wiki/NumPy

Array

NumPy arrays are faster and uses much less memory to store data than Python lists. While a Python list can contain different data types within a single list, all of the elements in a NumPy array should be homogeneous.

Source: https://www.youtube.com/watch?v=QUT1VHiLmmI&t=674s

NumPy official documentation

https://www.numpy.org/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