APRENMIN
OTEC

AsGeoMin

Fundamentos de Machine Learning para Geometalurgia

Python

24 de abril al 4 de mayo 2023

Agenda

Machine Learning basis

Case study

Univariate Exploratory Data Analysis (EDA)

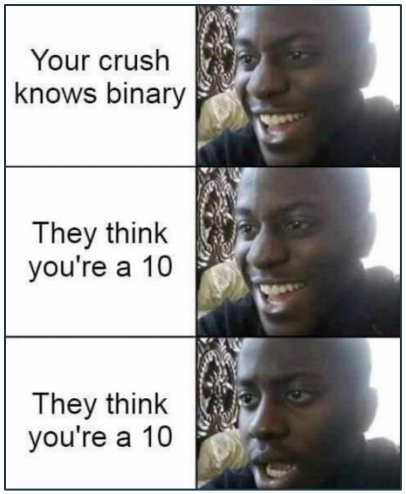
Data Preparation

Regression model (proxy) for geometallurgical parameter Ai

Binary Number System

Representation of a number in terms of 0 and 1 only.

Decimal Number	Binary Number
1	1
2	10
3	11
4	100
5	101
6	110
7	111
8	1000
9	1001
10	1010

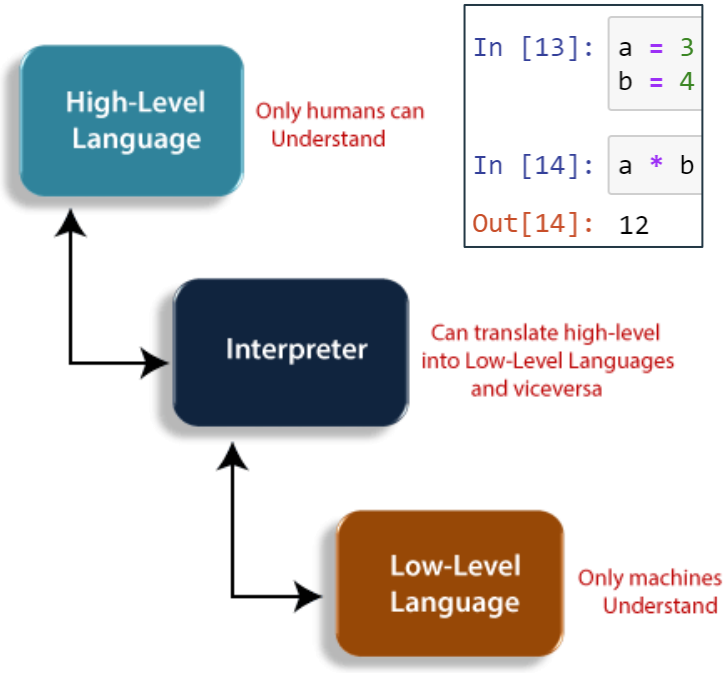



```
There are 10 kinds of
people in this world.
Those who understand
binary and those who don't.
```

Python

High-level programming language. Simple, easy to learn syntax emphasizes readability. The Python interpreter and the extensive standard library are freely distributed.

Guido van Rossum



Source: https://www.python.org/doc/essays/blurb/

Why learn Python?

👽 Python is an in-demand, accessible programming language with an active, ever-growing community of users.

🙌 It’s relatively easy to learn and incredibly versatile, and it’s used in a variety of fields.

🕵 Python is the most-used programming language for machine learning.

Source: https://techbootcamps.utexas.edu/blog/why-learn-python-get-startedprogramming/#:~:text=Why%20Learn%20Python%3F-,Five%20Reasons%20to%20Start%20Programming%20With%20Python%20in%202022,a%20great%20place%20to%20start.

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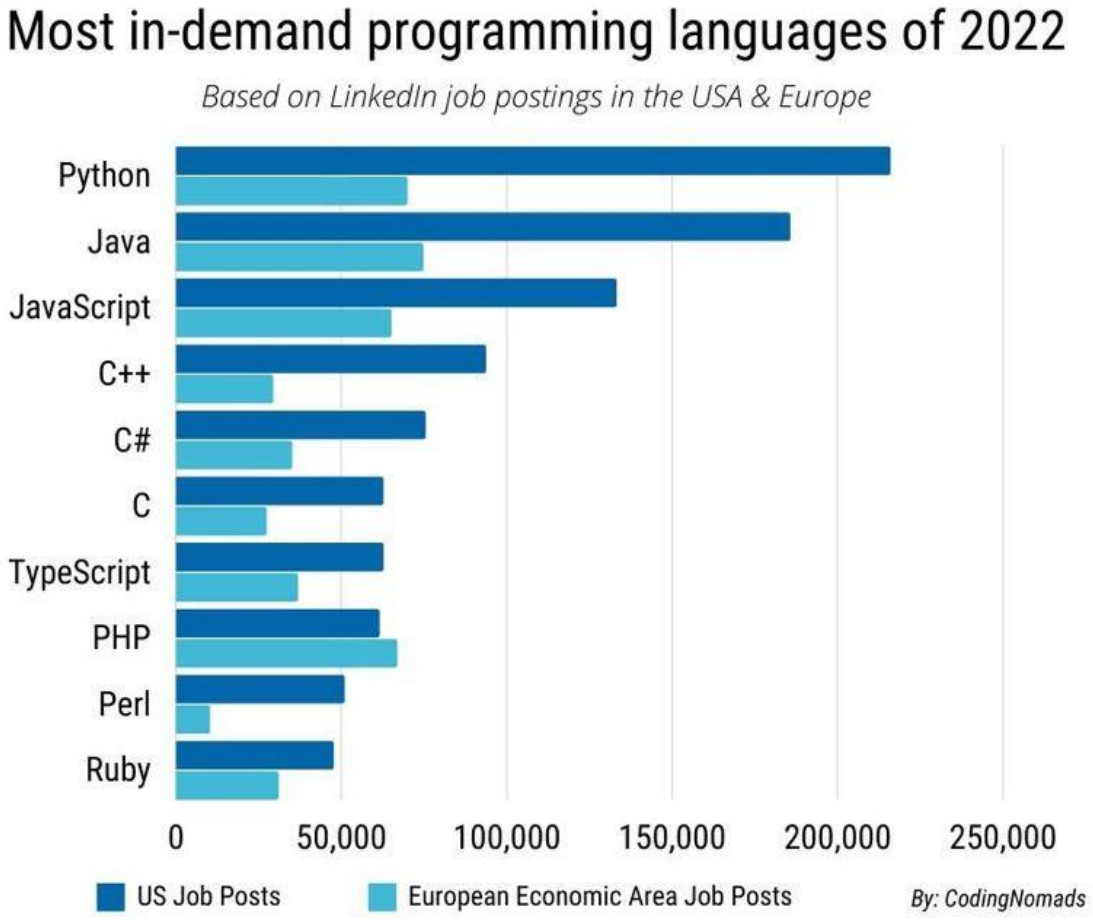

Source: https://www.techrepublic.com/article/the-best-programming-languages-to-learn-in-2022/

Python official documentation

https://www.python.org/

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