

## I-Data Processing & Analysis

### 01. Pandas



- Used to wrangle and clean different data formats.
- It's highly efficient and has a wide range of functionalities.

### 02. Numpy



- Used for scientific computation and performing math operations on arrays.
- It has fast functions for numerical processes.

### 03. Scipy



- Used to perform high-level computations and has modules for linear algebra and statistics.
- It's highly efficient and has a wide range of functionalities.

## II- Machine Learning

### 04. Scikit learn



- Used to train and test supervised and unsupervised machine learning models.

### 05. TensorFlow



- Used to design and deploy machine learning models.
- Used in time series analysis and speech recognition.

### 06. PyCaret



- A low code library for deploying and testing machine learning models.

### 07. Keras



- Used in deep learning and artificial neural networks.

## III- Visualization

### 08. Matplotlib



- Used to create 2D data visualizations.
- It has a good variety of tools and rich documentation.

### 09. Plotly



- Used to create 3D data visualizations.
- The charts have interactive options and can be easily shared.

### 10. Autoviz



- Used to create automatic visualizations by detecting the most important features.
- It's easy to use and can work with datasets of different formats and sizes.

### 11. Ggplot

- Used to create combined and different types of visualizations.
- It's easy to use and can be used both in Python and R programming languages.

## IV- Data Mining

### 12. Beautiful soup

- Used to scrape data HTML and XML websites.
- It can be used to extract different data parts and save the parsed data into any format.

### 13. Scrapy



- Used to scrape data from APIs and in building crawling bots.

