

Python for Data Mining Part 1



Python as a Programming Language

- Python is a high level general purpose programming language with many dominant areas including data analysis, data mining and artificial intelligence.
- [Python Enhancement Proposal 8 \(PEP 8\)](#) provides a guidance on how to write Python code to enhance readability and maintain consistency across projects.

File Operations with `open(file_path, mode)` as `file_variable`:
Code block to work with the file
Perform file operations using the `file_variable`

Common modules and their usage

- NumPy: Provides an n-dimensional array (ndarray) data structure and a wide range of mathematical operations for numerical computations.
- matplotlib.pyplot: Offers high-quality data visualization capabilities for creating various types of plots and customizing their appearance.
- pandas: Introduces Series and DataFrame data structures, which facilitate data manipulation operations and provide methods for data analysis and visualization.