**Pandas**

Pandas is a Python library used for working with data sets. It has functions for analyzing, cleaning, exploring, and manipulating data. The name "Pandas" has a reference to both "Panel Data", and "Python Data Analysis" and was created by Wes McKinney in 2008.

**Key Features:**

* Data structures: DataFrame (2D) and Series (1D)
* Handling missing data, data alignment, and integrated handling of missing data
* Group by functionality, data transformations, and merging/joining datasets

**NumPy**

NumPy is a general-purpose array-processing package. It provides a high-performance multidimensional array object, and tools for working with these arrays. It is the fundamental package for scientific computing with Python.

Besides its obvious scientific uses, Numpy can also be used as an efficient multi-dimensional container of generic data.

**Key Features**:

* N-dimensional array object (ndarray)
* Mathematical functions for operations on arrays
* Tools for integrating C/C++ and Fortran code, linear algebra, Fourier transform, and random number capabilities

**TensorFlow**

TensorFlow is an open-source library for machine learning and deep learning, developed by Google. It is designed to be flexible and extensible for building ML models. TensorFlow supports computation across CPUs, GPUs, and TPUs.

**Key Features:**

* Data flow graphs for numerical computations
* Scalability across various hardware (CPUs, GPUs, and TPUs)
* Extensive support for machine learning algorithms and TensorBoard for visualization

**Keras**

Keras is a high-level neural networks API, written in Python and capable of running on top of TensorFlow, CNTK, or Theano. It is focused on being user-friendly and modular. Keras is designed for fast experimentation and easy prototyping.

**Key Features:**

* User-friendly and modular with support for convolutional and recurrent networks
* Easy prototyping and production deployment
* Multiple backend support with extensive pre-trained models and layers

**Scikit-learn (sklearn)**

Scikit-learn is a machine learning library for Python, built on NumPy, SciPy, and Matplotlib. It is known for its simple and efficient tools for predictive data analysis. Scikit-learn provides easy-to-use interfaces for a wide range of ML algorithms.

**Key Features:**

* Simple and efficient tools for data mining and data analysis
* Built-in algorithms for classification, regression, clustering, and dimensionality reduction
* Model selection and evaluation tools, support for pipelines and workflows, and integration with other scientific libraries

**PyTorch**

PyTorch is an open-source machine learning library developed by Facebook's AI Research lab. It emphasizes flexibility and ease of use, particularly for research and development. PyTorch is known for its dynamic computational graph and efficient tensor computation.

**Key Features:**

* Tensor computation with strong GPU acceleration
* Dynamic computational graphs for easier debugging