**Required Packages**

1. **matplotlib.pyplot**: For creating static, animated, and interactive visualizations in Python.
2. **numpy**: A fundamental package for scientific computing, providing support for large, multi-dimensional arrays and matrices.
3. **pandas**: A powerful data manipulation and analysis library, offering data structures such as DataFrames.
4. **os**: For interacting with the operating system, enabling file and directory manipulation.
5. **glob**: Used for finding pathnames matching a specified pattern according to Unix shell rules.
6. **seaborn**: A data visualization library based on matplotlib, providing a high-level interface for drawing attractive and informative statistical graphics.
7. **PIL (Pillow)**: The Python Imaging Library, offering image processing capabilities.
8. **sklearn (scikit-learn)**: A library for machine learning, including tools for data mining and data analysis.
9. **itertools**: Implements a number of iterator building blocks inspired by constructs from APL, Haskell, and SML, useful for efficient looping.
10. **keras**: A high-level neural networks API, written in Python and capable of running on top of TensorFlow, CNTK, or Theano.

**Installation Command**

To install these packages, run the following command in your terminal or command prompt:

bash

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pip install matplotlib numpy pandas seaborn pillow scikit-learn keras

Note that some packages, such as os and itertools, are part of Python's standard library and do not require separate installation.

Ensure that you are using the latest version of pip to avoid any compatibility issues. You can upgrade pip using the following command:

bash

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pip install --upgrade pip

By installing these packages, you will have a comprehensive set of tools for data processing, analysis, visualization, and building sophisticated machine learning and deep learning models.