How to Install Keras

Keras is a high-level neural networks API, written in Python and capable of running on top of TensorFlow, CNTK, or Theano.

1. Dependencies:

Keras uses the following dependencies:

- Python
- Install one of its backend engines: TensorFlow, Theano, or CNTK.

  ➢ When using the **TensorFlow** backend (recommended)
  See TensorFlow installation instructions (https://www.tensorflow.org/install/).

  ➢ When using the **Theano** backend:
  See Theano installation instructions
  (http://deeplearning.net/software/theano/install.html#install)

  ➢ When using the CNTK backend:
  See CNTK installation instructions
  (https://docs.microsoft.com/en-us/cognitive-toolkit/setup-cntk-on-your-machine)
- cuDNN (optional, required if you plan on running Keras on GPU).
- HDF5 and h5py (optional, required if you plan on saving Kears model to disk)

2. Install Keras:

- from PyPI (recommended):

  ```
  sudo pip install keras
  ```

  If you are using a virtualenv, you may want to avoid using sudo:

  ```
  pip install keras
  ```

- from the GitHub source:

  1. First, clone Keras using `git`:
     ```
     git clone https://github.com/keras-team/keras.git
     ```

  2. Then, `cd` to the Keras folder and run the install command:
     ```
     cd keras
     ```
     ```
     sudo python setup.py install
     ```

  ✓ You can find more information about Keras in https://keras.io/.