Keras

Keras is a high-level neural networks API, written in Python and capable of running on top of **TensorFlow, CNTK, or Theano**. It was developed with a focus on enabling fast experimentation. Being able to go from idea to result with the least possible delay is key to doing good research.

Use Keras if you need a deep learning library that:

Allows for easy and fast prototyping (through user friendliness, modularity, and extensibility).

Supports both convolutional networks and recurrent networks, as well as combinations of the two.

Runs seamlessly on CPU, GPU and TPU.

TensorFlow

TensorFlow is a free and open-source software library for dataflow and differentiable programming across a range of tasks. It is a symbolic math library, and is also used for machine learning applications such as neural networks. Wikipedia

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TensorFlow vs Keras

Tensorflow	Keras
• TensorFlow is the open source library for a number of various tasks in machine learning. • TensorFlow provides both high-level and low-level APIs. • TF allows for immediate iteration along with intuitive debugging.	• Keras is a neural network library. • Keras provides only high-level APIs. • Keras reduces the cognitive load for the users.