**<https://www.edureka.co/blog/keras-vs-tensorflow-vs-pytorch/>**

**Tensor Flow:**

Tensor Flow is an open-source library for dataflow programming across a range of tasks. It is symbolic math library that is used for Machine Learning applications like neural networks.

**Keras:**

Keras is an open source neural network library written in Python. It is capable of running on top of Tensor Flow. It is designed to enable fast experimentation with deep neural networks.

**PyTorch:**

PyTorch is an open-source Machine learning for Python, based on the torch. It is used for applications such as Natural Language Processing and was developed by Facebook’s AI Research group.

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|  | **Keras** | **PyTorch** | **TensorFlow** |
| API Level | High | Low | High and Low |
| Architecture | Simple, concise, readable | Complex, less readable | Not easy to use |
| Datasets | Smaller datasets | Large datasets, high performance | Large datasets, high performance |
| Debugging | Simple network, so debugging is not often needed | Good debugging capabilities | Difficult to conduct debugging |
| Does It Have Trained Models? | Yes | Yes | Yes |
| Popularity | Most popular | Third most popular | Second most popular |
| Speed | Slow, low performance | Fast, high-performance | Fast, high-performance |
| Written In | Python | Lua | C++, CUDA, Python |
| When to use | * Rapid Prototyping * Small Dataset * Multiple back-end support | * Flexibility * Short Training Duration * Debugging capabilities | * Large Dataset * High Performance * Functionality * [Object Detection](https://www.edureka.co/blog/tensorflow-object-detection-tutorial/) |

In the spirit of "there's no such thing as too much knowledge," try to learn how to use as many frameworks as possible. In other words, the Keras vs. PyTorch vs. TensorFlow debate should encourage you to get to know all three, how they overlap, and how they differ.

Have a look at the video below that will you help you have a better understanding of the differences between Keras vs Tensorflow vs Pytorch.