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The Hitchhiker's Guide to PyTorch

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What is PyTorch

PyTorch is a Python-based scientific computing package serving two broad purposes:

- A replacement for NumPy to use the power of GPUs
- A deep learning research platform that provides maximum flexibility and speed

What is PyTorch

- Tensors are similar to NumPy's ndarrays, with the addition being that Tensors can also be used on a GPU to accelerate computing.
- PyTorch provides Tensors that can live either on the CPU or the GPU, and accelerates the computation by a huge amount.
- PyTorch is also an autograd system. Autograd is a PyTorch package for the differentiation for all operations on Tensors.

- PyTorch is an open source machine learning library based on the Torch library, used for applications such as computer vision and

natural language
processing, primarily
developed by Facebook's AI
Research lab (FAIR).

- It is free and open-source software released under the Modified BSD license.
- Although the Python interface is more polished and the primary focus of

development, PyTorch also
has a C++ interface.