**Tool Metadata Report (by MetadataFetcher)**

**1. General Information**

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| --- | --- |
| **Name** | pytorch |
| **Use Case** | AI/ML Development Tools |
| **Homepage** | https://pytorch.org/ |
| **Description** | PyTorch is an open-source machine learning library based on the Torch library, used for applications such as computer vision, deep learning research and natural language processing, originally developed by Meta AI and now part of the Linux Foundation umbrella. It is one of the most popular deep learning frameworks, alongside others such as TensorFlow, offering 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. |

**2. Documentation**

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| --- | --- |
| **Main Documentation** | https://pytorch.org/docs/stable/index.html |
| **Top Documentation Links** | https://pytorch.org/docs/stable/index.html https://pytorch.org/blog/torch-compile-and-diffusers-a-hands-on-guide-to-peak-performance/ https://pytorch.org/get-started/previous-versions |

**3. Installation**

|  |  |
| --- | --- |
| **Installation Links** | https://pytorch.org/get-started/locally/ https://pytorch.org/get-started/previous-versions https://pytorch.org/get-started/previous-versions/ https://cloud.google.com/deep-learning-vm/docs/pytorch\_start\_instance https://pytorch.org/get-started/pytorch-2-x/ https://pytorch.org/get-started/cloud-partners/ https://pytorch.org/get-started/executorch/ https://pytorch.org/get-started/locally?\_\_hstc=76629258.724dacd2270c1ae797f3a62ecd655d50.1746547368336.1746547368336.1746547368336.1&\_\_hssc=76629258.9.1746547368336&\_\_hsfp=2230748894 https://console.cloud.google.com/freetrial https://cloud.google.com/deep-learning-vm/docs/tensorflow\_start\_instance https://cloud.google.com/sdk/downloads https://cloud.google.com/shell/docs/starting-cloud-shell https://cloud.google.com/startup/ https://cloud.google.com/docs/get-started/ |
| **Installation Summary** | pip: pip install torch==2.7.0 torchvision==0.22.0 torchaudio==2.7.0 from source: git clone https://github.com/pytorch/pytorch docker: docker run --gpus all -it ghcr.io/pytorch/pytorch-nightly:latest /bin/bash docker compose: None other: apt-get install google-cloud-cli=123.0.0-0 platforms: {'linux': [{'command': 'apt-get install google-cloud-cli=123.0.0-0', 'explanation': 'Install a package using apt (Debian/Ubuntu).', 'note': 'Run in your Linux terminal.'}]} |

**4. Other Links**

**All Documentation Links:**

https://pytorch.org/docs/stable/index.html

https://pytorch.org/blog/torch-compile-and-diffusers-a-hands-on-guide-to-peak-performance/

https://pytorch.org/get-started/previous-versions

https://docs.aws.amazon.com/deep-learning-containers/latest/devguide/deep-learning-containers-ec2-tutorials-training.html#deep-learning-containers-ec2-tutorials-training-pytorch

https://docs.aws.amazon.com/dlami/latest/devguide/tutorial-pytorch.html

https://cloud.google.com/deep-learning-vm/docs/pytorch\_start\_instance

https://docs.microsoft.com/en-us/azure/machine-learning/how-to-train-pytorch

https://docs.microsoft.com/en-us/azure/azure-functions/machine-learning-pytorch?tabs=bash

https://pytorch.org/docs

https://discuss.pytorch.org/

https://pytorch.org/executorch/stable/index.html

https://pytorch.org/pytorch-domains

https://pytorch.org/docs/versions.html

https://readthedocs.org

https://pytorch.org/assets/brand-guidelines/PyTorch-Brand-Guidelines.pdf

https://pytorch.org/blog/torch-compile-and-diffusers-a-hands-on-guide-to-peak-performance/#respond

https://docs.pytorch.org/tutorials/intermediate/torch\_compile\_tutorial.html

https://docs.pytorch.org/docs/stable/torch.compiler\_dynamic\_shapes.html#abridged-public-api

https://docs.pytorch.org/docs/stable/torch.compiler\_troubleshooting.html

https://docs.google.com/document/d/1y5CRfMLdwEoF1nTk9q8qEu1mgMUuUtvhklPKJ2emLU8/edit?tab=t.0

https://docs.pytorch.org/tutorials/recipes/regional\_compilation.html

https://docs.pytorch.org/tutorials/recipes/torch\_compile\_caching\_tutorial.html

https://huggingface.co/docs/diffusers/main/en/optimization/memory#offloading

https://huggingface.co/docs/peft/en/index

https://huggingface.co/docs/diffusers/main/en/tutorials/using\_peft\_for\_inference#hotswapping

https://docs.google.com/document/d/1y5CRfMLdwEoF1nTk9q8qEu1mgMUuUtvhklPKJ2emLU8/edit?tab=t.0#heading=h.ivdr7fmrbeab

https://huggingface.co/docs/diffusers/main/en/optimization/fp16#torchcompile

https://docs.aws.amazon.com/pdfs/deep-learning-containers/latest/devguide/dlc-guide.pdf.pdf#deep-learning-containers-ec2-tutorials-training

https://docs.aws.amazon.com/index.html

https://docs.aws.amazon.com/pdfs/dlami/latest/devguide/dlami-dg.pdf#tutorial-pytorch

http://pytorch.org/docs/master/

https://cloud.google.com/docs

https://cloud.google.com/docs/tech-area-overviews

https://cloud.google.com/docs/ai-ml

https://cloud.google.com/docs/application-development

https://cloud.google.com/docs/application-hosting

https://cloud.google.com/docs/compute-area

https://cloud.google.com/docs/data

https://cloud.google.com/docs/databases

https://cloud.google.com/docs/dhm-cloud

https://cloud.google.com/docs/generative-ai

https://cloud.google.com/docs/industry

https://cloud.google.com/docs/networking

https://cloud.google.com/docs/observability

https://cloud.google.com/docs/security

https://cloud.google.com/docs/storage

https://cloud.google.com/docs/cross-product-overviews

https://cloud.google.com/docs/access-resources

https://cloud.google.com/docs/costs-usage

https://cloud.google.com/docs/devtools

https://cloud.google.com/docs/iac

https://cloud.google.com/docs/migration

https://cloud.google.com/marketplace/docs

https://cloud.google.com/deep-learning-vm/docs

https://cloud.google.com/deep-learning-vm/docs/introduction

https://cloud.google.com/deep-learning-vm/docs/troubleshooting

https://cloud.google.com/deep-learning-vm/docs/release-notes

https://cloud.google.com/deep-learning-vm/docs/create-vm-instance-gcloud

https://cloud.google.com/deep-learning-vm/docs/create-vm-instance-console

https://cloud.google.com/deep-learning-vm/docs/tensorflow\_start\_instance

https://cloud.google.com/deep-learning-vm/docs/cli

https://cloud.google.com/deep-learning-vm/docs/cloud-marketplace

https://cloud.google.com/deep-learning-vm/docs/concepts-images

https://cloud.google.com/deep-learning-vm/docs/images

https://cloud.google.com/deep-learning-vm/docs/creating-images

https://cloud.google.com/deep-learning-vm/docs/jupyter

https://cloud.google.com/billing/docs/how-to/verify-billing-enabled#confirm\_billing\_is\_enabled\_on\_a\_project

https://cloud.google.com/compute/docs/machine-types

https://cloud.google.com/compute/docs/gpus

https://cloud.google.com/sdk/docs

https://cloud.google.com/sdk/downloads

https://cloud.google.com/sdk/docs/initializing

https://cloud.google.com/shell/docs/starting-cloud-shell

https://cloud.google.com/compute/docs/gpus#restrictions

https://cloud.google.com/compute/docs/gpus#other\_available\_nvidia\_gpu\_models

https://cloud.google.com/compute/docs/gpus/gpu-regions-zones

https://cloud.google.com/compute/docs/instances/preemptible

https://cloud.google.com/compute/docs/instances/connecting-to-instance

https://cloud.google.com/docs/get-started/

https://cloud.google.com/docs/

https://cloud.google.com/docs/samples

https://github.com/MicrosoftDocs/azure-ai-docs/blob/main/articles/machine-learning/how-to-train-pytorch.md

https://aka.ms/sdk-v2-install

https://github.com/MicrosoftDocs/azure-docs/blob/main/articles/azure-functions/machine-learning-pytorch.md

https://azure.microsoft.com/free/?ref=microsoft.com&utm\_source=microsoft.com&utm\_medium=docs&utm\_campaign=visualstudio

https://code.visualstudio.com/docs/python/tutorial-azure-functions

**All Installation Links:**

https://pytorch.org/get-started/locally/

https://pytorch.org/get-started/previous-versions

https://pytorch.org/get-started/previous-versions/

https://cloud.google.com/deep-learning-vm/docs/pytorch\_start\_instance

https://pytorch.org/get-started/pytorch-2-x/

https://pytorch.org/get-started/cloud-partners/

https://pytorch.org/get-started/executorch/

https://pytorch.org/get-started/locally?\_\_hstc=76629258.724dacd2270c1ae797f3a62ecd655d50.1746547368336.1746547368336.1746547368336.1&\_\_hssc=76629258.9.1746547368336&\_\_hsfp=2230748894

https://console.cloud.google.com/freetrial

https://cloud.google.com/deep-learning-vm/docs/tensorflow\_start\_instance

https://cloud.google.com/sdk/downloads

https://cloud.google.com/shell/docs/starting-cloud-shell

https://cloud.google.com/startup/

https://cloud.google.com/docs/get-started/