**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**

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| **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:**  Command: pip install torch==2.7.0 torchvision==0.22.0 torchaudio==2.7.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==2.7.0 torchvision==0.22.0 torchaudio==2.7.0 --index-url https://download.pytorch.org/whl/rocm6.3  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==2.7.0 torchvision==0.22.0 torchaudio==2.7.0 --index-url https://download.pytorch.org/whl/cu118  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==2.7.0 torchvision==0.22.0 torchaudio==2.7.0 --index-url https://download.pytorch.org/whl/cu126  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==2.7.0 torchvision==0.22.0 torchaudio==2.7.0 --index-url https://download.pytorch.org/whl/cu128  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==2.7.0 torchvision==0.22.0 torchaudio==2.7.0 --index-url https://download.pytorch.org/whl/cpu  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  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When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==2.0.1 torchvision==0.15.2 torchaudio==2.0.2 --index-url https://download.pytorch.org/whl/cu118  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==2.0.1 torchvision==0.15.2 torchaudio==2.0.2 --index-url https://download.pytorch.org/whl/cpu  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==2.0.0 torchvision==0.15.1 torchaudio==2.0.1  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  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When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.13.1 torchvision==0.14.1 torchaudio==0.13.1  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.13.1+rocm5.2 torchvision==0.14.1+rocm5.2 torchaudio==0.13.1 --extra-index-url https://download.pytorch.org/whl/rocm5.2  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.13.1+cu116 torchvision==0.14.1+cu116 torchaudio==0.13.1 --extra-index-url https://download.pytorch.org/whl/cu116  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.13.1+cu117 torchvision==0.14.1+cu117 torchaudio==0.13.1 --extra-index-url https://download.pytorch.org/whl/cu117  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.13.1+cpu torchvision==0.14.1+cpu torchaudio==0.13.1 --extra-index-url https://download.pytorch.org/whl/cpu  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.13.0 torchvision==0.14.0 torchaudio==0.13.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.13.0+rocm5.2 torchvision==0.14.0+rocm5.2 torchaudio==0.13.0 --extra-index-url https://download.pytorch.org/whl/rocm5.2  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.13.0+cu116 torchvision==0.14.0+cu116 torchaudio==0.13.0 --extra-index-url https://download.pytorch.org/whl/cu116  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.13.0+cu117 torchvision==0.14.0+cu117 torchaudio==0.13.0 --extra-index-url https://download.pytorch.org/whl/cu117  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.13.0+cpu torchvision==0.14.0+cpu torchaudio==0.13.0 --extra-index-url https://download.pytorch.org/whl/cpu  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.1 torchvision==0.13.1 torchaudio==0.12.1  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.12.1+rocm5.1.1 torchvision==0.13.1+rocm5.1.1 torchaudio==0.12.1 --extra-index-url https://download.pytorch.org/whl/rocm5.1.1  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.1+cu116 torchvision==0.13.1+cu116 torchaudio==0.12.1 --extra-index-url https://download.pytorch.org/whl/cu116  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.1+cu113 torchvision==0.13.1+cu113 torchaudio==0.12.1 --extra-index-url https://download.pytorch.org/whl/cu113  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.1+cu102 torchvision==0.13.1+cu102 torchaudio==0.12.1 --extra-index-url https://download.pytorch.org/whl/cu102  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.1+cpu torchvision==0.13.1+cpu torchaudio==0.12.1 --extra-index-url https://download.pytorch.org/whl/cpu  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.0 torchvision==0.13.0 torchaudio==0.12.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.12.0+rocm5.1.1 torchvision==0.13.0+rocm5.1.1 torchaudio==0.12.0 --extra-index-url https://download.pytorch.org/whl/rocm5.1.1  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.0+cu116 torchvision==0.13.0+cu116 torchaudio==0.12.0 --extra-index-url https://download.pytorch.org/whl/cu116  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.0+cu113 torchvision==0.13.0+cu113 torchaudio==0.12.0 --extra-index-url https://download.pytorch.org/whl/cu113  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.0+cu102 torchvision==0.13.0+cu102 torchaudio==0.12.0 --extra-index-url https://download.pytorch.org/whl/cu102  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.12.0+cpu torchvision==0.13.0+cpu torchaudio==0.12.0 --extra-index-url https://download.pytorch.org/whl/cpu  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.11.0 torchvision==0.12.0 torchaudio==0.11.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.11.0+rocm4.5.2 torchvision==0.12.0+rocm4.5.2 torchaudio==0.11.0 --extra-index-url https://download.pytorch.org/whl/rocm4.5.2  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.11.0+cu113 torchvision==0.12.0+cu113 torchaudio==0.11.0 --extra-index-url https://download.pytorch.org/whl/cu113  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.11.0+cu102 torchvision==0.12.0+cu102 torchaudio==0.11.0 --extra-index-url https://download.pytorch.org/whl/cu102  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.11.0+cpu torchvision==0.12.0+cpu torchaudio==0.11.0 --extra-index-url https://download.pytorch.org/whl/cpu  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: Use to upgrade to the latest version.  **pip:**  Command: pip install torch==1.10.1 torchvision==0.11.2 torchaudio==0.10.1  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.10.1+rocm4.2 torchvision==0.11.2+rocm4.2 torchaudio==0.10.1 -f https://download.pytorch.org/whl/rocm4.2/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.10.1+rocm4.1 torchvision==0.11.2+rocm4.1 torchaudio==0.10.1 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  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Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install ninja  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install 'git+https://github.com/pytorch/vision.git@v0.9.0'  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.8.0+cu111 torchvision==0.9.0+cu111 torchaudio==0.8.0 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.8.0+cpu torchvision==0.9.0+cpu torchaudio==0.8.0 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  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When to use: General pip install command.  **pip:**  Command: pip install torch==1.7.1+cu92 torchvision==0.8.2+cu92 torchaudio==0.7.2 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.7.1+cpu torchvision==0.8.2+cpu torchaudio==0.7.2 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.7.0 torchvision==0.8.0 torchaudio==0.7.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.7.0+cu110 torchvision==0.8.0+cu110 torchaudio==0.7.0 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.7.0+cu101 torchvision==0.8.0+cu101 torchaudio==0.7.0 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.7.0+cu92 torchvision==0.8.0+cu92 torchaudio==0.7.0 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.7.0+cpu torchvision==0.8.0+cpu torchaudio==0.7.0 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.6.0 torchvision==0.7.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.6.0+cu101 torchvision==0.7.0+cu101 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.6.0+cu92 torchvision==0.7.0+cu92 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.6.0+cpu torchvision==0.7.0+cpu -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.5.1 torchvision==0.6.1  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.5.1+cu101 torchvision==0.6.1+cu101 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.5.1+cu92 torchvision==0.6.1+cu92 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.5.1+cpu torchvision==0.6.1+cpu -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.5.0 torchvision==0.6.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.5.0+cu101 torchvision==0.6.0+cu101 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.5.0+cu92 torchvision==0.6.0+cu92 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.5.0+cpu torchvision==0.6.0+cpu -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.4.0 torchvision==0.5.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.4.0+cu92 torchvision==0.5.0+cu92 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.4.0+cpu torchvision==0.5.0+cpu -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.2.0 torchvision==0.4.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.2.0+cu92 torchvision==0.4.0+cu92 -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.2.0+cpu torchvision==0.4.0+cpu -f https://download.pytorch.org/whl/torch\_stable.html  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.1.0 torchvision==0.3.0  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.0.1 torchvision==0.2.2  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install torch==1.0.0 torchvision==0.2.1  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install [downloaded file]  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip install downloaded\_file  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **pip:**  Command: pip installed popular libraries like  Explanation: Install a Python package using pip.  Note: Run in your terminal or command prompt.  When to use: General pip install command.  **from\_source:**  Command: git clone https://github.com/pytorch/pytorch  Explanation: Clone a repository using git.  Note: Run in your terminal.  **docker:**  Command: docker run --gpus all -it ghcr.io/pytorch/pytorch-nightly:latest /bin/bash  Explanation: Docker command.  Note: Run in your terminal with Docker installed.  Platform: any  **docker:**  Command: docker pull ghcr.io/pytorch/pytorch-nightly  Platform: any  **other:**  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.  **other:**  Command: https://dl.google.com/dl/cloudsdk/channels/rapid/GoogleCloudSDKInstaller.exe  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **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/