**Tool Metadata Report (by MetadataFetcher)**

**1. General Information**

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| --- | --- |
| **Name** | tensorflow |
| **Use Case** | AI/ML Development Tools |
| **Homepage** | https://www.tensorflow.org/ |
| **Description** | TensorFlow is a software library for machine learning and artificial intelligence. It can be used across a range of tasks, but is used mainly for training and inference of neural networks. It is one of the most popular deep learning frameworks, alongside others such as PyTorch. It is free and open-source software released under the Apache License 2.0. |

**2. Documentation**

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| --- | --- |
| **Main Documentation** | https://www.tensorflow.org/install |
| **Top Documentation Links** | https://www.tensorflow.org/install https://www.tensorflow.org/guide https://www.tensorflow.org/lite/api\_docs |

**3. Installation**

|  |  |
| --- | --- |
| **Installation Links** | https://www.tensorflow.org/install https://colab.research.google.com/github/tensorflow/docs/blob/master/site/en/tutorials/quickstart/beginner.ipynb https://www.tensorflow.org/install/pip https://www.tensorflow.org/install/docker https://www.tensorflow.org/install/gpu\_plugins https://www.tensorflow.org/install/errors https://www.tensorflow.org/install/source https://www.tensorflow.org/install/source\_windows https://www.tensorflow.org/jvm/install https://www.tensorflow.org/install/lang\_java\_legacy https://www.tensorflow.org/install/lang\_c https://github.com/tensorflow/build/tree/master/golang\_install\_guide https://docs.docker.com/install/ https://accounts.google.com/ServiceLogin?passive=true&continue=https%3A%2F%2Fcolab.research.google.com%2Fgithub%2Ftensorflow%2Fdocs%2Fblob%2Fmaster%2Fsite%2Fen%2Ftutorials%2Fquickstart%2Fbeginner.ipynb&ec=GAZAqQM |
| **Installation Summary** | **pip:**  Command: pip install --upgrade pip  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 tensorflow  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 tensorflow[and-cuda]  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 tf-nightly  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 guide  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/tensorflow/tensorflow.git  Explanation: Clone a repository using git.  Note: Run in your terminal.  **docker:**  Command: docker run -it -p 8888:8888 tensorflow/tensorflow:latest-jupyter # Start Jupyter server  Explanation: Docker command.  Note: Run in your terminal with Docker installed.  Platform: any  **docker:**  Command: docker run -it tensorflow/tensorflow bash  Explanation: Docker command.  Note: Run in your terminal with Docker installed.  Platform: any  **docker:**  Command: docker run -it -p 8888:8888 tensorflow/tensorflow:nightly-jupyter  Explanation: Docker command.  Note: Run in your terminal with Docker installed.  Platform: any  **docker:**  Command: docker run --rm --runtime=nvidia --gpus all ubuntu nvidia-smi  Explanation: Docker command.  Note: Run in your terminal with Docker installed.  Platform: any  **docker:**  Command: docker run --gpus all -it tensorflow/tensorflow:latest-gpu bash  Explanation: Docker command.  Note: Run in your terminal with Docker installed.  Platform: any  **docker:**  Command: docker run [-it] [--rm] [-p  Platform: any  **docker:**  Command: docker run reference  Platform: any  **docker:**  Command: docker run  Explanation: Docker command.  Note: Run in your terminal with Docker installed.  Platform: any  **docker\_compose:**  Command: Docker Compose  Platform: any  **other:**  Command: https://storage.googleapis.com/tensorflow/libtensorflow/libtensorflow\_jni-cpu-linux-x86\_64-2.4.0.tar.gz  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/libtensorflow/libtensorflow\_jni-gpu-linux-x86\_64-2.4.0.tar.gz  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/libtensorflow/libtensorflow\_jni-cpu-darwin-x86\_64-2.4.0.tar.gz  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/libtensorflow/libtensorflow\_jni-cpu-windows-x86\_64-2.4.0.zip  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/libtensorflow/libtensorflow\_jni-gpu-windows-x86\_64-2.4.0.zip  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/versions/2.18.0/libtensorflow-cpu-linux-x86\_64.tar.gz  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/versions/2.18.0/libtensorflow-gpu-linux-x86\_64.tar.gz  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/versions/2.16.2/libtensorflow-cpu-darwin-x86\_64.tar.gz  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/versions/2.18.0/libtensorflow-cpu-darwin-arm64.tar.gz  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/versions/2.18.1/libtensorflow-cpu-windows-x86\_64.zip  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions.  **other:**  Command: https://storage.googleapis.com/tensorflow/libtensorflow/libtensorflow-gpu-windows-x86\_64-2.10.0.zip  Explanation: Direct download link for an installer or archive.  Note: Download and follow platform-specific install instructions. |

**4. Other Links**

**All Documentation Links:**

https://www.tensorflow.org/install

https://www.tensorflow.org/guide

https://www.tensorflow.org/lite/api\_docs

https://www.tensorflow.org/tfx/api\_docs

https://www.tensorflow.org/community/contribute

https://colab.research.google.com/github/tensorflow/docs/blob/master/site/en/tutorials/quickstart/beginner.ipynb

https://www.tensorflow.org/guide/data

https://www.tensorflow.org/guide/keras

https://www.tensorflow.org/extras/tensorflow\_brand\_guidelines.pdf

https://www.tensorflow.org/install/pip

https://www.tensorflow.org/install/docker

https://www.tensorflow.org/install/gpu\_plugins

https://www.tensorflow.org/install/errors

https://www.tensorflow.org/install/source

https://www.tensorflow.org/install/source\_windows

https://www.tensorflow.org/jvm/install

https://www.tensorflow.org/install/lang\_java\_legacy

https://www.tensorflow.org/install/lang\_c

https://github.com/tensorflow/build/tree/master/golang\_install\_guide

https://docs.docker.com/install/

https://www.tensorflow.org/guide/migrate

https://github.com/tensorflow/docs/tree/master/site/en/r1

https://www.tensorflow.org/guide/basics

https://www.tensorflow.org/guide/tensor

https://www.tensorflow.org/guide/variable

https://www.tensorflow.org/guide/autodiff

https://www.tensorflow.org/guide/intro\_to\_graphs

https://www.tensorflow.org/guide/intro\_to\_modules

https://www.tensorflow.org/guide/basic\_training\_loops

https://www.tensorflow.org/guide/keras/sequential\_model

https://www.tensorflow.org/guide/keras/functional\_api

https://www.tensorflow.org/guide/keras/training\_with\_built\_in\_methods

https://www.tensorflow.org/guide/keras/making\_new\_layers\_and\_models\_via\_subclassing

https://www.tensorflow.org/guide/keras/serialization\_and\_saving

https://www.tensorflow.org/guide/keras/customizing\_saving\_and\_serialization

https://www.tensorflow.org/guide/keras/preprocessing\_layers

https://www.tensorflow.org/guide/keras/customizing\_what\_happens\_in\_fit

https://www.tensorflow.org/guide/keras/writing\_a\_training\_loop\_from\_scratch

https://www.tensorflow.org/guide/keras/working\_with\_rnns

https://www.tensorflow.org/guide/keras/understanding\_masking\_and\_padding

https://www.tensorflow.org/guide/keras/writing\_your\_own\_callbacks

https://www.tensorflow.org/guide/keras/transfer\_learning

https://www.tensorflow.org/guide/keras/distributed\_training

https://www.tensorflow.org/guide/core

https://www.tensorflow.org/guide/core/quickstart\_core

https://www.tensorflow.org/guide/core/logistic\_regression\_core

https://www.tensorflow.org/guide/core/mlp\_core

https://www.tensorflow.org/guide/core/matrix\_core

https://www.tensorflow.org/guide/core/optimizers\_core

https://www.tensorflow.org/guide/core/distribution

https://www.tensorflow.org/guide/tensor\_slicing

https://www.tensorflow.org/guide/advanced\_autodiff

https://www.tensorflow.org/guide/ragged\_tensor

https://www.tensorflow.org/guide/sparse\_tensor

https://www.tensorflow.org/guide/random\_numbers

https://www.tensorflow.org/guide/tf\_numpy

https://www.tensorflow.org/guide/tf\_numpy\_type\_promotion

https://www.tensorflow.org/guide/dtensor\_overview

https://www.tensorflow.org/guide/effective\_tf2

https://www.tensorflow.org/guide/create\_op

https://www.tensorflow.org/guide/extension\_type

https://www.tensorflow.org/guide/data\_performance

https://www.tensorflow.org/guide/data\_performance\_analysis

https://www.tensorflow.org/guide/checkpoint

https://www.tensorflow.org/guide/saved\_model

https://www.tensorflow.org/guide/jax2tf

https://www.tensorflow.org/guide/distributed\_training

https://www.tensorflow.org/guide/gpu

https://www.tensorflow.org/guide/tpu

https://www.tensorflow.org/guide/function

https://www.tensorflow.org/guide/profiler

https://www.tensorflow.org/guide/gpu\_performance\_analysis

https://www.tensorflow.org/guide/graph\_optimization

https://www.tensorflow.org/guide/mixed\_precision

https://www.tensorflow.org/guide/estimator

https://www.tensorflow.org/guide/versions

https://www.tensorflow.org/guide/keras/overview

https://www.tensorflow.org/guide/eager

https://www.tensorflow.org/tfx/guide/serving

https://www.tensorflow.org/tfx/guide

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/BulkInferrer

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/CsvExampleGen

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/DataAccessor

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/Evaluator

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/ExampleDiff

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/ExampleValidator

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/FnArgs

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/ImportExampleGen

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/ImportSchemaGen

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/InfraValidator

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/Pusher

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/SchemaGen

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/StatisticsGen

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/Trainer

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/Transform

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/Tuner

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/components/TunerFnResult

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/Artifact

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/Channel

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/Cond

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/ExecutionMode

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/Importer

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/Pipeline

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/Resolver

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/components

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/components/AsyncOutputArtifact

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/components/BeamComponentParameter

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/components/InputArtifact

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/components/OutputArtifact

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/components/OutputDict

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/components/Parameter

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/components/component

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/experimental

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/experimental/LatestArtifactStrategy

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/experimental/LatestBlessedModelStrategy

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/experimental/ResolverStrategy

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/experimental/RuntimeParameter

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/experimental/SpanRangeStrategy

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/experimental/create\_container\_component

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/NotFoundError

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/PathType

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/copy

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/exists

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/glob

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/isdir

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/listdir

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/makedirs

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/mkdir

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/open

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/remove

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/rename

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/rmtree

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/stat

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/io/fileio/walk

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/placeholders

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/placeholders/exec\_property

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/placeholders/execution\_invocation

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/placeholders/input

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/dsl/placeholders/output

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions/google\_cloud\_ai\_platform

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions/google\_cloud\_ai\_platform/BulkInferrer

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions/google\_cloud\_ai\_platform/Pusher

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions/google\_cloud\_ai\_platform/Trainer

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions/google\_cloud\_ai\_platform/Tuner

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions/google\_cloud\_ai\_platform/experimental

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions/google\_cloud\_big\_query

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions/google\_cloud\_big\_query/BigQueryExampleGen

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/extensions/google\_cloud\_big\_query/Pusher

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/LocalDagRunner

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/experimental

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/experimental/FinalStatusStr

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/experimental/KubeflowDagRunner

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/experimental/KubeflowDagRunnerConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/experimental/KubeflowV2DagRunner

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/experimental/KubeflowV2DagRunnerConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/experimental/exit\_handler

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/experimental/get\_default\_kubeflow\_metadata\_config

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/metadata

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/metadata/ConnectionConfigType

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/metadata/mysql\_metadata\_connection\_config

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/orchestration/metadata/sqlite\_metadata\_connection\_config

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/ClassifyOutput

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/CustomConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/DataSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/DistributionValidatorConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/EnvVar

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/EnvVarSource

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/EvalArgs

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/ExampleDiffConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/FeatureComparator

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/FeatureSlicingSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/Filesystem

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/Input

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/KubernetesConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/LocalDockerConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/ModelSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/Output

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/OutputColumnsSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/OutputExampleSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/PairedExampleSkew

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/PodOverrides

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/PredictOutput

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/PredictOutputCol

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/PushDestination

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/RangeConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/RegressOutput

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/RequestSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/RollingRange

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/SecretKeySelector

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/ServingSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/SingleSlicingSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/SplitConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/SplitsConfig

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/StaticRange

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/TensorFlowServing

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/TensorFlowServingRequestSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/TrainArgs

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/TuneArgs

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/ValidationSpec

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/orchestration

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/proto/orchestration/RunState

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/testing

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/testing/Channel

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/BaseBeamComponent

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/BaseChannel

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/BaseComponent

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/BaseComponent/DRIVER\_CLASS

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/BaseFunctionalComponent

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/BaseFunctionalComponentFactory

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/BaseNode

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/standard\_artifacts

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/standard\_artifacts/Boolean

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/standard\_artifacts/Bytes

https://www.tensorflow.org/tfx/api\_docs/python/tfx/v1/types/standard\_artifacts/ExampleAnomalies

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https://www.tensorflow.org/api\_docs/python/tf/TypeSpec

https://www.tensorflow.org/api\_docs/python/tf/Tensor

https://www.tensorflow.org/api\_docs/python/tf/sparse/SparseTensor

https://www.tensorflow.org/api\_docs/python/tf/RaggedTensor

https://www.tensorflow.org/api\_docs/python/tf/TensorArray

https://www.tensorflow.org/api\_docs/python/tf/stack

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#element\_spec

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#filter

https://www.tensorflow.org/api\_docs/python/tf/constant

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#from\_generator

https://www.tensorflow.org/api\_docs/python/tf/Graph

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#padded\_batch

https://www.tensorflow.org/api\_docs/python/tf/keras/preprocessing/image/ImageDataGenerator

https://www.tensorflow.org/api\_docs/python/tf/train/Example

https://www.tensorflow.org/api\_docs/python/tf/data/TextLineDataset

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#interleave

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#skip

https://www.tensorflow.org/api\_docs/python/tf/data/experimental/make\_csv\_dataset

https://www.tensorflow.org/api\_docs/python/tf/data/experimental/CsvDataset

https://www.tensorflow.org/api\_docs/python/tf/io/read\_file

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#repeat

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#shuffle

https://www.tensorflow.org/api\_docs/python/tf/py\_function

https://www.tensorflow.org/api\_docs/python/tf/image

https://www.tensorflow.org/api\_docs/python/tf/image/rot90

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#range

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#zip

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#window

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#flat\_map

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#sample\_from\_datasets

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#rejection\_resample

https://www.tensorflow.org/api\_docs/python/tf/data/Dataset#prefetch

https://www.tensorflow.org/api\_docs/python/tf/train/Checkpoint

https://www.tensorflow.org/api\_docs/python/tf/keras

https://www.tensorflow.org/api\_docs/python/tf/keras/Model#fit

https://www.tensorflow.org/api\_docs/python/tf/keras/Model#evaluate

https://www.tensorflow.org/api\_docs/python/tf/keras/Model#predict

https://www.tensorflow.org/guide/core#core\_api\_applications

https://www.tensorflow.org/api\_docs/python/tf/keras/callbacks

https://www.tensorflow.org/guide/keras/functional

https://www.tensorflow.org/guide/keras/custom\_layers\_and\_models

https://www.tensorflow.org/guide/keras/save\_and\_serialize

https://www.tensorflow.org/guide/keras/rnn

https://www.tensorflow.org/guide/keras/masking\_and\_padding

https://www.tensorflow.org/guide/keras/custom\_callback

**All Installation Links:**

https://www.tensorflow.org/install

https://colab.research.google.com/github/tensorflow/docs/blob/master/site/en/tutorials/quickstart/beginner.ipynb

https://www.tensorflow.org/install/pip

https://www.tensorflow.org/install/docker

https://www.tensorflow.org/install/gpu\_plugins

https://www.tensorflow.org/install/errors

https://www.tensorflow.org/install/source

https://www.tensorflow.org/install/source\_windows

https://www.tensorflow.org/jvm/install

https://www.tensorflow.org/install/lang\_java\_legacy

https://www.tensorflow.org/install/lang\_c

https://github.com/tensorflow/build/tree/master/golang\_install\_guide

https://docs.docker.com/install/

https://accounts.google.com/ServiceLogin?passive=true&continue=https%3A%2F%2Fcolab.research.google.com%2Fgithub%2Ftensorflow%2Fdocs%2Fblob%2Fmaster%2Fsite%2Fen%2Ftutorials%2Fquickstart%2Fbeginner.ipynb&ec=GAZAqQM