

番外篇

TensorFlow 社区参与指南



扫描二维码

试看/购买《TensorFlow 快速入门与实战》视频课程

番外篇 目录

- TensorFlow 社区介绍
- TensorFlow 生态-TFX
- TensorFlow 生态-Kubeflow
- 如何参与 TensorFlow 社区开源贡献
- ML GDE 是 TensorFlow 社区与开发者的桥梁

TensorFlow 社区介绍

TensorFlow 开源社区 (20181219)

The screenshot shows the GitHub repository page for `tensorflow/tensorflow`. The page includes the repository name, a star count of 117,035, a fork count of 70,723, and various navigation links like Pull requests, Issues, Marketplace, and Explore. Below the header, there are tabs for Code, Issues (1,542), Pull requests (271), Projects (0), and Insights. A summary bar at the top provides metrics: 46,033 commits, 32 branches, 74 releases, 1,762 contributors, and Apache-2.0 license. The main content area displays a list of recent commits, with the latest commit by `majnemer` and `tensorflower-gardener` being added to `xla_hlo_profile_test`. Other commits listed include updates to `.github/ISSUE_TEMPLATE`, `tensorflow`, `third_party`, `tools`, `.bazelrc`, and `.qitignore`.

An Open Source Machine Learning Framework for Everyone <https://tensorflow.org>

tensorflow machine-learning python deep-learning deep-neural-networks neural-network ml distributed

46,033 commits 32 branches 74 releases 1,762 contributors Apache-2.0

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

Commit	Message	Time
	majnemer and tensorflower-gardener [XLA] Add test assertions to <code>xla_hlo_profile_test</code> ...	Latest commit 01b5dfc 5 hours ago
	.github/ISSUE_TEMPLATE Add TFLite specific template for select/missing ops.	23 days ago
	tensorflow [XLA] Add test assertions to <code>xla_hlo_profile_test</code>	3 hours ago
	third_party Internal change.	a day ago
	tools Update to bazel-0.18.0 and use try-import	15 days ago
	.bazelrc Internal change.	3 days ago
	.qitignore Update to bazel-0.18.0 and use try-import	15 days ago

TensorFlow 开源社区 (20190304)

The screenshot shows the GitHub repository page for `tensorflow/tensorflow`. The repository has 8,562 stars and 70,723 forks. It features tabs for Code, Issues (1,750), Pull requests (330), Projects (1), and Insights. The repository is described as "An Open Source Machine Learning Framework for Everyone" with a link to <https://tensorflow.org>. Tags include tensorflow, machine-learning, python, deep-learning, deep-neural-networks, neural-network, ml, and distributed. Key statistics shown are 50,547 commits, 52 branches, 78 releases, 1,865 contributors, and Apache-2.0 license. A recent commit by `martinwicke` was made an hour ago. The commit history lists several recent changes, including updates to `.github/ISSUE_TEMPLATE`, `tensorflow`, `third_party`, `tools`, and `.bazelrc`.

An Open Source Machine Learning Framework for Everyone <https://tensorflow.org>

tensorflow machine-learning python deep-learning deep-neural-networks neural-network ml distributed

50,547 commits 52 branches 78 releases 1,865 contributors Apache-2.0

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

Commit	Message	Time
	<code>martinwicke</code> and <code>tensorflower-gardener</code> Disable PoolingTest.testMaxPoolGrad_maxpool5 in v2. ...	Latest commit c1797e7 an hour ago
	<code>.github/ISSUE_TEMPLATE</code> Ambiq squashed commits	3 months ago
	<code>tensorflow</code> Disable PoolingTest.testMaxPoolGrad_maxpool5 in v2.	39 minutes ago
	<code>third_party</code> Patch absl to work around nvcc bug on windows.	2 days ago
	<code>tools</code> Update to bazel-0.18.0 and use try-import	3 months ago
	<code>.bazelrc</code> Updates Apple platform config settings. Sets default target to `macos...	2 days ago

TensorFlow 发布版本

The screenshot shows the GitHub repository page for TensorFlow. At the top, there's a navigation bar with the repository name "tensorflow / tensorflow", a "Watch" button (8,605), a "Star" button (121,660), a "Fork" button (72,459), and links for "Code", "Issues 1,749", "Pull requests 330", "Projects 1", and "Insights". Below this, there are tabs for "Releases" and "Tags", with "Tags" being the active tab. The main content area is titled "Tags" and lists several tagged releases:

Tag	Published	Commit	Zip	Tar.gz	Notes	Status
v1.13.1	6 days ago	6612da8	zip	tar.gz	Notes	Verified
v1.13.0-rc2	17 days ago	c865ec5	zip	tar.gz	Notes	Verified
v1.13.0-rc1	24 days ago	63c13ff	zip	tar.gz	Notes	Verified
v1.13.0-rc0	on Jan 23	a8e5c41	zip	tar.gz	Notes	Verified
v1.12.0	on Nov 2, 2018	a6d8ffa	zip	tar.gz	Notes	Verified
v1.12.0-rc2	on Oct 26, 2018	748435b	zip	tar.gz	Notes	Verified
v1.12.0-rc1	on Oct 17, 2018	7b08198	zip	tar.gz	Notes	Verified
v1.12.0-rc0	on Oct 9, 2018	1a6dea3	zip	tar.gz	Notes	Verified

TensorFlow 版本日志

Latest release

v1.13.1
6612da8

Verified

TensorFlow 1.13.1

gunan released this 6 days ago

Release 1.13.1

Major Features and Improvements

- TensorFlow Lite has moved from contrib to core. This means that Python modules are under `tf.lite` and source code is now under `tensorflow/lite` rather than `tensorflow/contrib/lite`.
- TensorFlow GPU binaries are now built against CUDA 10 and TensorRT 5.0.
- Support for Python3.7 on all operating systems.
- Moved NCCL to core.

Behavioral changes

- Disallow conversion of python floating types to uint32/64 (matching behavior of other integer types) in `tf.constant`.
- Make the `gain` argument of convolutional orthogonal initializers (`convolutional_delta_orthogonal`, `convolutional_orthogonal_1D`, `convolutional_orthogonal_2D`, `convolutional_orthogonal_3D`) have consistent behavior with the `tf.initializers.orthogonal` initializer, i.e. scale the output l2-norm by `gain` and NOT by `sqrt(gain)`. (Note that these functions are currently in `tf.contrib` which is not guaranteed backward compatible).

TensorFlow 版本日志

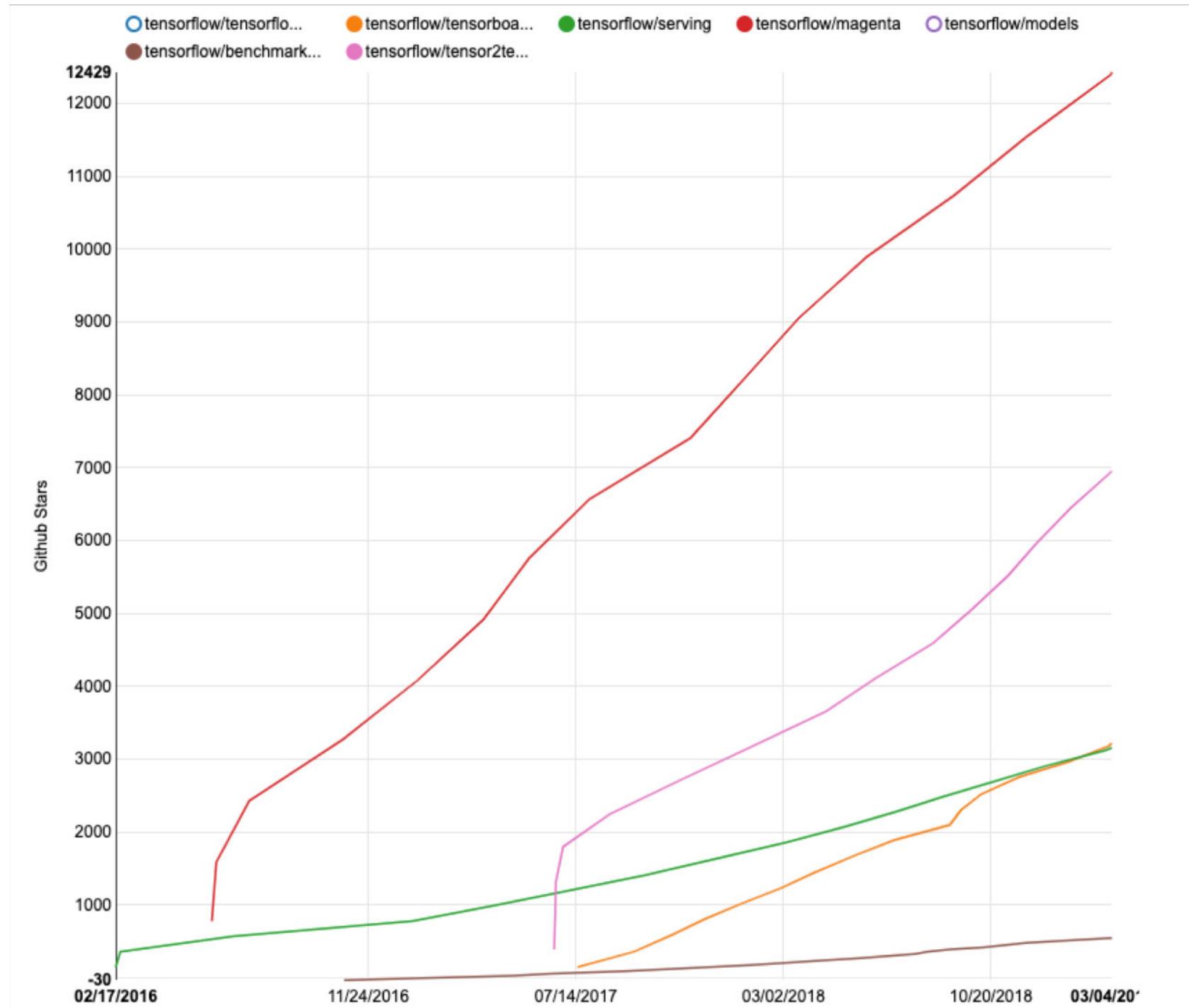
Bug Fixes and Other Changes

- Documentation
 - Update the doc with the details about the rounding mode used in `quantize_and_dequantize_v2`.
 - Clarify that `tensorflow::port::InitMain()` *should* be called before using the TensorFlow library.
Programs failing to do this are not portable to all platforms.
- Deprecations and Symbol renames.
 - Removing deprecations for the following endpoints: `tf.acos`, `tf.acosh`, `tf.add`,
`tf.as_string`, `tf.asin`, `tf.asinh`, `tf.atan`, `tf.atan2`, `tf.atanh`, `tf.cos`, `tf.cosh`,
`tf.equal`, `tf.exp`, `tf.floor`, `tf.greater`, `tf.greater_equal`, `tf.less`, `tf.less_equal`,
`tf.log`, `tf.logp1`, `tf.logical_and`, `tf.logical_not`, `tf.logical_or`, `tf.maximum`,
`tf.minimum`, `tf.not_equal`, `tf.sin`, `tf.sinh`, `tf.tan`
 - Deprecate `tf.data.Dataset.shard`.
 - Deprecate `saved_model.loader.load` which is replaced by `saved_model.load` and
`saved_model.main_op`, which will be replaced by `saved_model.main_op` in V2.
 - Deprecate `tf.QUANTIZED_DTYPES`. The official new symbol is `tf.dtypes.QUANTIZED_DTYPES`.
 - Update sklearn imports for deprecated packages.
 - Deprecate `Variable.count_up_to` and `tf.count_up_to` in favor of `Dataset.range`.
 - Export `confusion_matrix` op as `tf.math.confusion_matrix` instead of
`tf.train.confusion_matrix`.
 - Add `tf.dtypes.` endpoint for every constant in `dtypes.py`; moving endpoints in `versions.py` to
corresponding endpoints in `tf.sysconfig.` and `tf.version.`; moving all constants under
`tf.saved_model` submodules to `tf.saved_model` module. New endpoints are added in V1 and V2
but existing endpoint removals are only applied in V2.
 - Deprecates behavior where device assignment overrides collocation constraints inside a
collocation context manager.

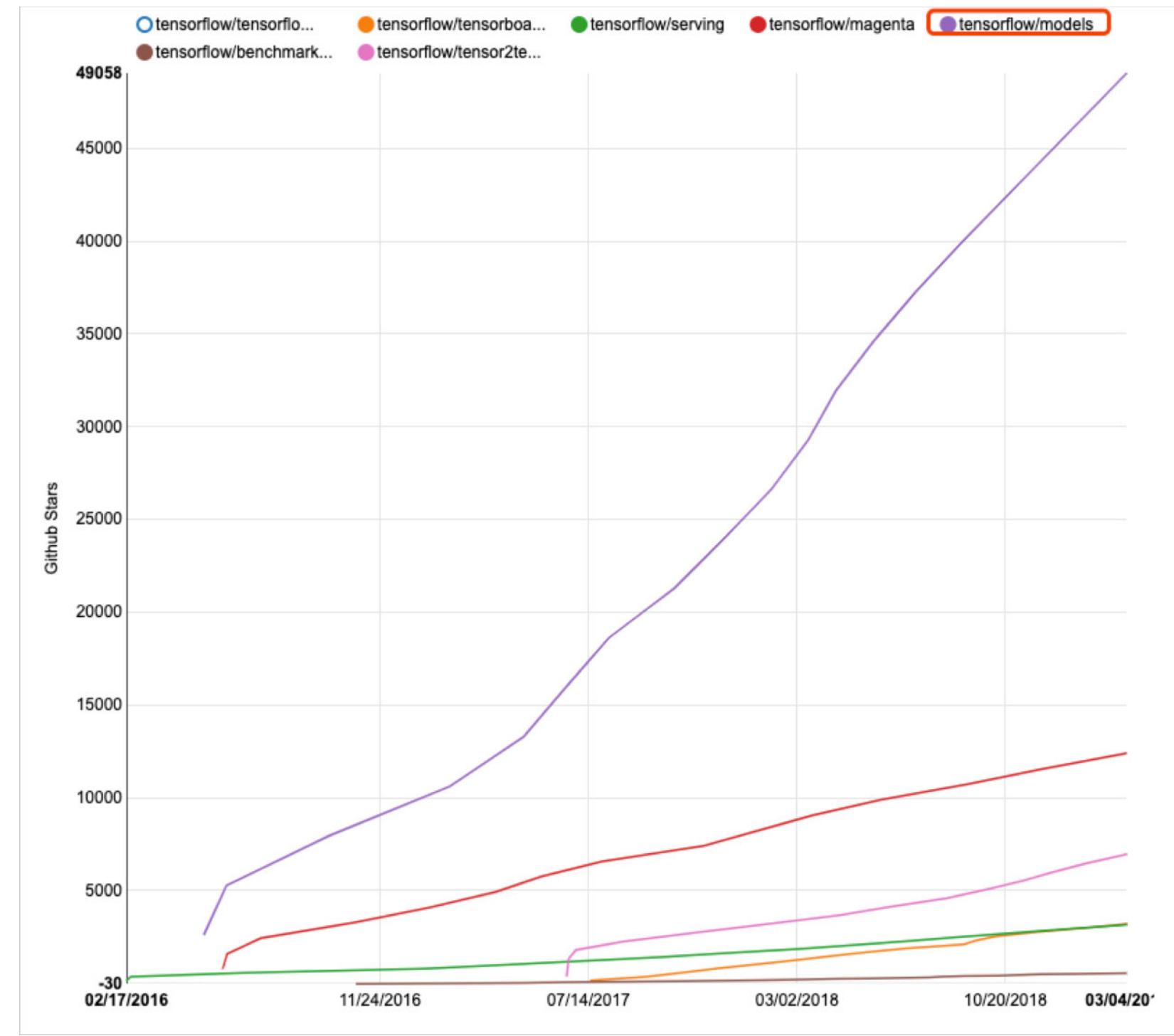
TensorFlow 版本日志

 v1.0.0 • 07bb8ea	<h2>TensorFlow 1.0.0</h2> <p> yifeif released this on Feb 16, 2017 · 71 commits to r1.0 since this release</p>
<h3>Thanks to our Contributors</h3> <p>This release contains contributions from many people at Google, as well as:</p> <p>Aaron Hu, Abhishek Aggarwal, Adam Michael, Adriano Carmezim, @AfirSraftGarrier, Alexander Novikov, Alexander Rosenberg Johansen, Andrew Gibiansky, Andrew Hundt, Anish Shah, Anton Loss, @b0nol, @BoyuanJiang, Carl Thomé, Chad Kennedy, Comic Chang, Connor Braa, Daniel N. Lang, Daniel Trebbien, @danielgordon10, Darcy Liu, Darren Garvey, Dmitri Lapin, Eron Wright, Evan Cofer, Fabrizio Milo, Finbarr Timbers, Franck Dernoncourt, Garrett Smith, @guschmue, Hao Wei, Henrik Holst, Huazuo Gao, @ian, @issac, Jacob Israel, Jangsoo Park, Jin Kim, Jingtian Peng, John Pope, Kye Bostelmann, Liangliang He, Ling Zhang, Luheng He, Luke Iwanski, @lvli, Michael Basilyan, Mihir Patel, Mikalai Drabovich, Morten Just, @newge, Nick Butlin, Nishant Shukla, Pengfei Ni, Przemyslaw Tredak, @rasbt, @ronny, Rudolf Rosa, @RustingSword, Sam Abrahams, Sam Putnam, @seongahjo, Shi Jiaxin, @skavulya, Steffen Müller, @TheUSER123, @tiriplicamihai, @vhasanov, Victor Costan, Vit Stepanovs, Wangda Tan, Wenjian Huang, Xingdong Zuo, Yaroslav Bulatov, Yota Toyama, Yuan (Terry) Tang, Yuxin Wu</p> <p>We are also grateful to all who filed issues or helped resolve them, asked and answered questions, and were part of inspiring discussions.</p>	

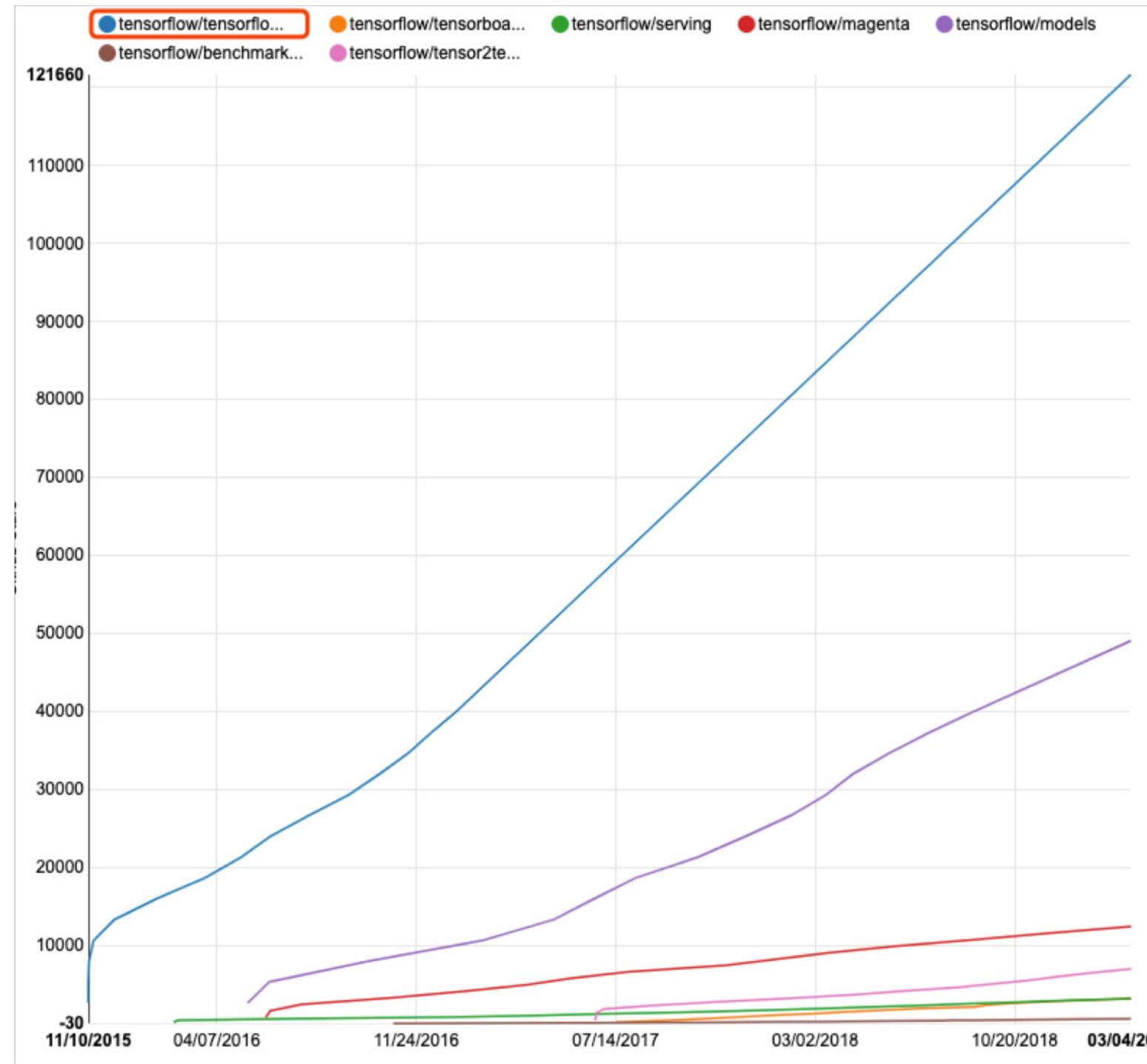
TensorFlow 社区热门项目



TensorFlow 社区热门项目

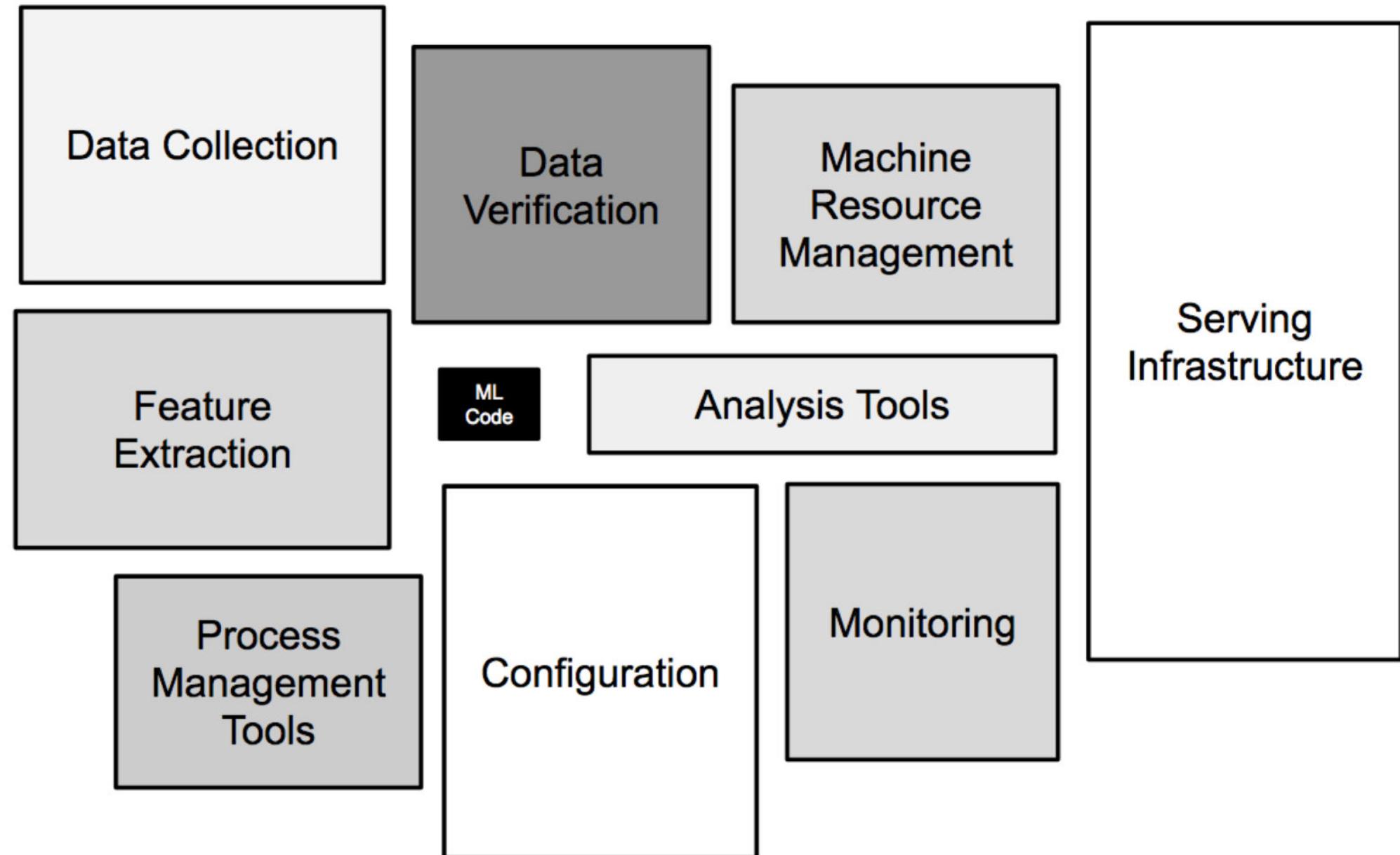


TensorFlow 社区热门项目



TensorFlow 生态-TFX

ML is more than a framework



TFX: A TensorFlow-Based Production-Scale Machine Learning Platform. KDD (2017).

<https://youtu.be/fPTwLVCq00U>

KDD 2017 Applied Data Science Paper

KDD'17, August 13–17, 2017, Halifax, NS, Canada

TFX: A TensorFlow-Based Production-Scale Machine Learning Platform

Denis Baylor, Eric Breck, Heng-Tze Cheng, Noah Fiedel, Chuan Yu Foo, Zakaria Haque,
Salem Haykal, Mustafa Ispir, Vihan Jain, Levent Koc, Chiu Yuen Koo, Lukasz Lew,
Clemens Mewald, Akshay Naresh Modi, Neoklis Polyzotis, Sukriti Ramesh, Sudip Roy,
Steven Euijong Whang, Martin Wicke, Jarek Wilkiewicz, Xin Zhang, Martin Zinkevich
Google Inc.*

ABSTRACT

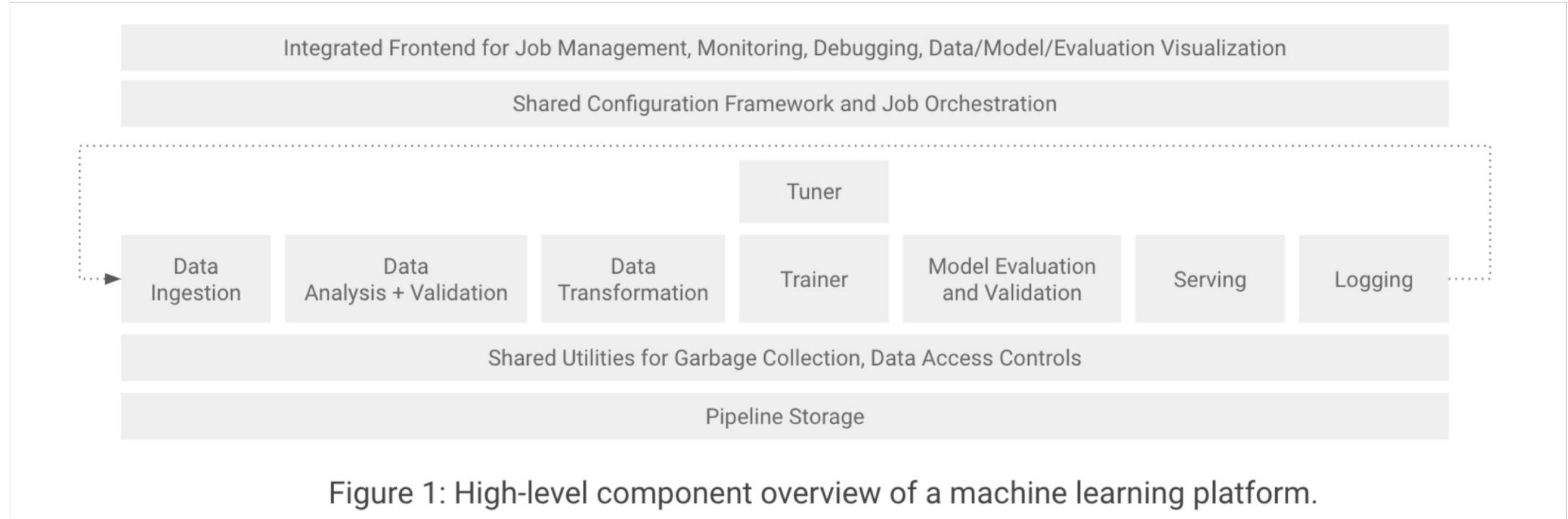
Creating and maintaining a platform for reliably producing and deploying machine learning models requires careful orchestration of many components—a learner for generating models based on training data, modules for analyzing and validating both data as well as models, and finally infrastructure for serving models in production. This becomes particularly challenging when data changes over time and fresh models need to be produced continuously. Unfortunately, such orchestration is often done ad hoc using glue code and custom scripts developed by individual teams for specific use cases, leading to duplicated effort and fragile systems with high technical debt.

We present TensorFlow Extended (TFX), a TensorFlow-based general-purpose machine learning platform implemented at Google. By integrating the aforementioned components into one platform, we were able to standardize the components, simplify the platform configuration, and reduce the time to production from the order of months to weeks, while

adopt machine learning as a tool to gain knowledge from data across a broad spectrum of use cases and products, ranging from recommender systems [6, 7], to clickthrough rate prediction for advertising [13, 15], and even the protection of endangered species [5].

The conceptual workflow of applying machine learning to a specific use case is simple: at the training phase, a *learner* takes a dataset as input and emits a learned model; at the inference phase, the *model* takes features as input and emits predictions. However, the actual workflow becomes more complex when machine learning needs to be deployed in production. In this case, additional components are required that, together with the learner and model, comprise a *machine learning platform*. The components provide automation to deal with a diverse range of failures that can happen in production and to ensure that model training and serving happen reliably. Building this type of automation is non-trivial, and it becomes even more challenging when we consider the following complications:

TFX - 基于 TensorFlow 的端到端机器学习平台



Baylor, Denis, et al. "Tfx: A tensorflow-based production-scale machine learning platform." *Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*. ACM, 2017.

TFX - 基于 TensorFlow 的端到端机器学习平台

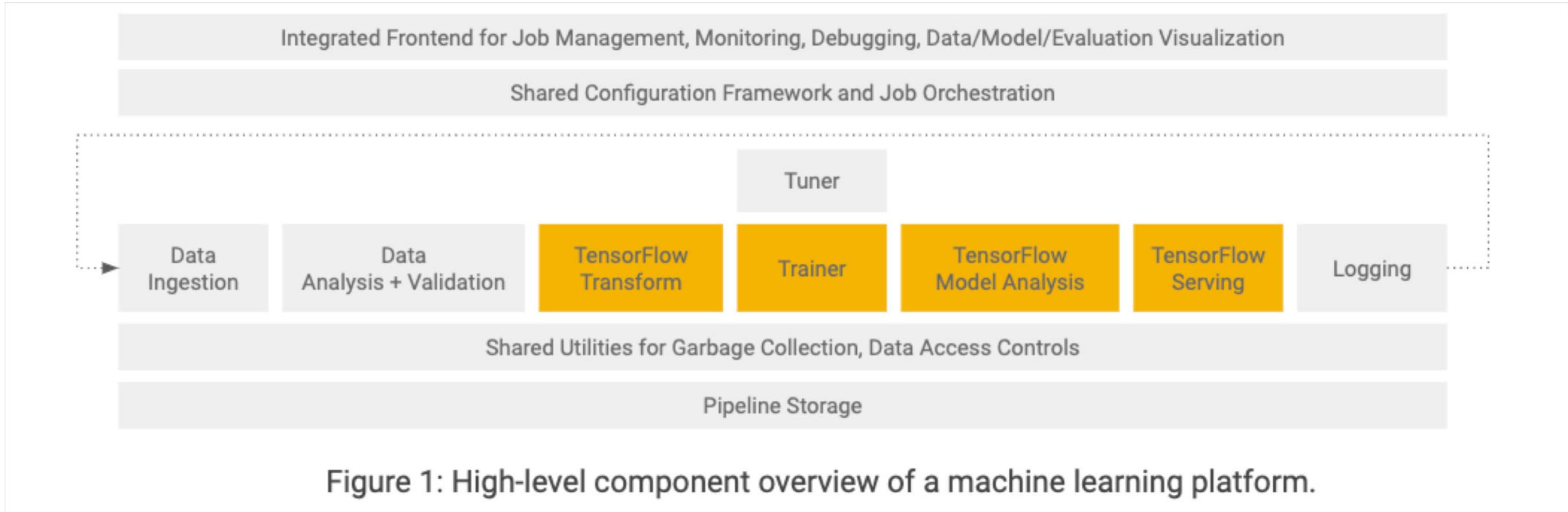


Figure 1: High-level component overview of a machine learning platform.

TFX - 基于 TensorFlow 的端到端机器学习平台

 tensorflow / tfx

Watch ▾ 13 Star 64 Fork 11

Code Issues 0 Pull requests 1 Projects 0 Wiki Insights

No description, website, or topics provided.

42 commits 1 branch 0 releases 6 contributors Apache-2.0

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

Author	Commit Message	Time
tfx-team	no-op. ...	Latest commit aa8059d 4 hours ago
docs	Move TFX library docs into user guide.	23 hours ago
examples	no-op.	4 hours ago
tfx	no-op.	4 hours ago

TFX - 基于 TensorFlow 的端到端机器学习平台

Available TFX libraries

TensorFlow Data Validation <https://github.com/tensorflow/data-validation>

A library for exploring and validating machine learning data.

TensorFlow Transform <https://github.com/tensorflow/transform>

A preprocessing pipeline to perform full-pass analyze phases over data to create transformation graphs that are consistently applied during training and serving.

TensorFlow Model Analysis <https://github.com/tensorflow/model-analysis>

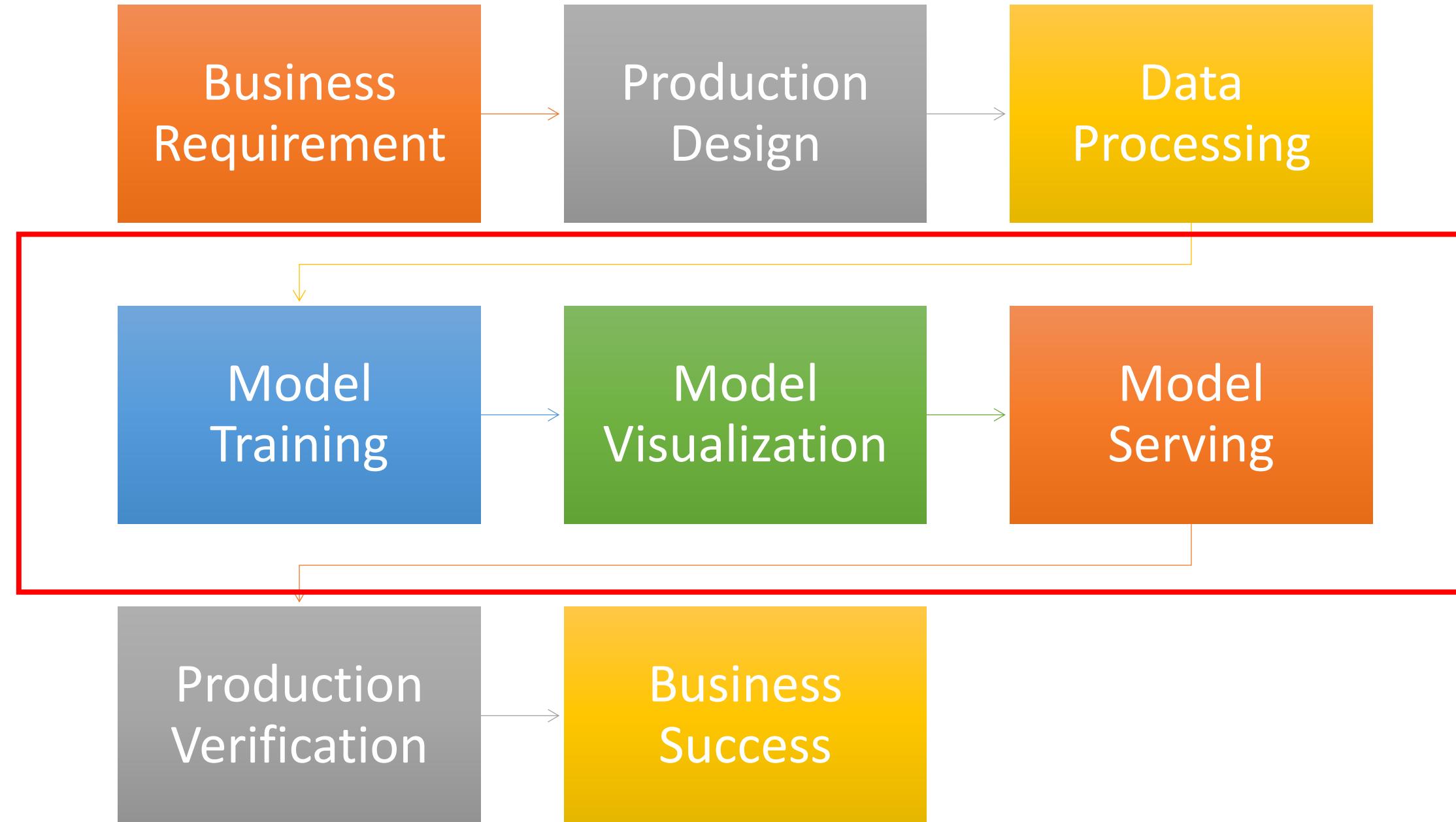
Libraries and visualization components to compute full-pass and sliced model metrics over large datasets, and analyze them in a notebook.

TensorFlow Serving <https://github.com/tensorflow/serving>

A flexible, high-performance serving system for machine learning models, designed for production environments.

TensorFlow 生态-Kubeflow

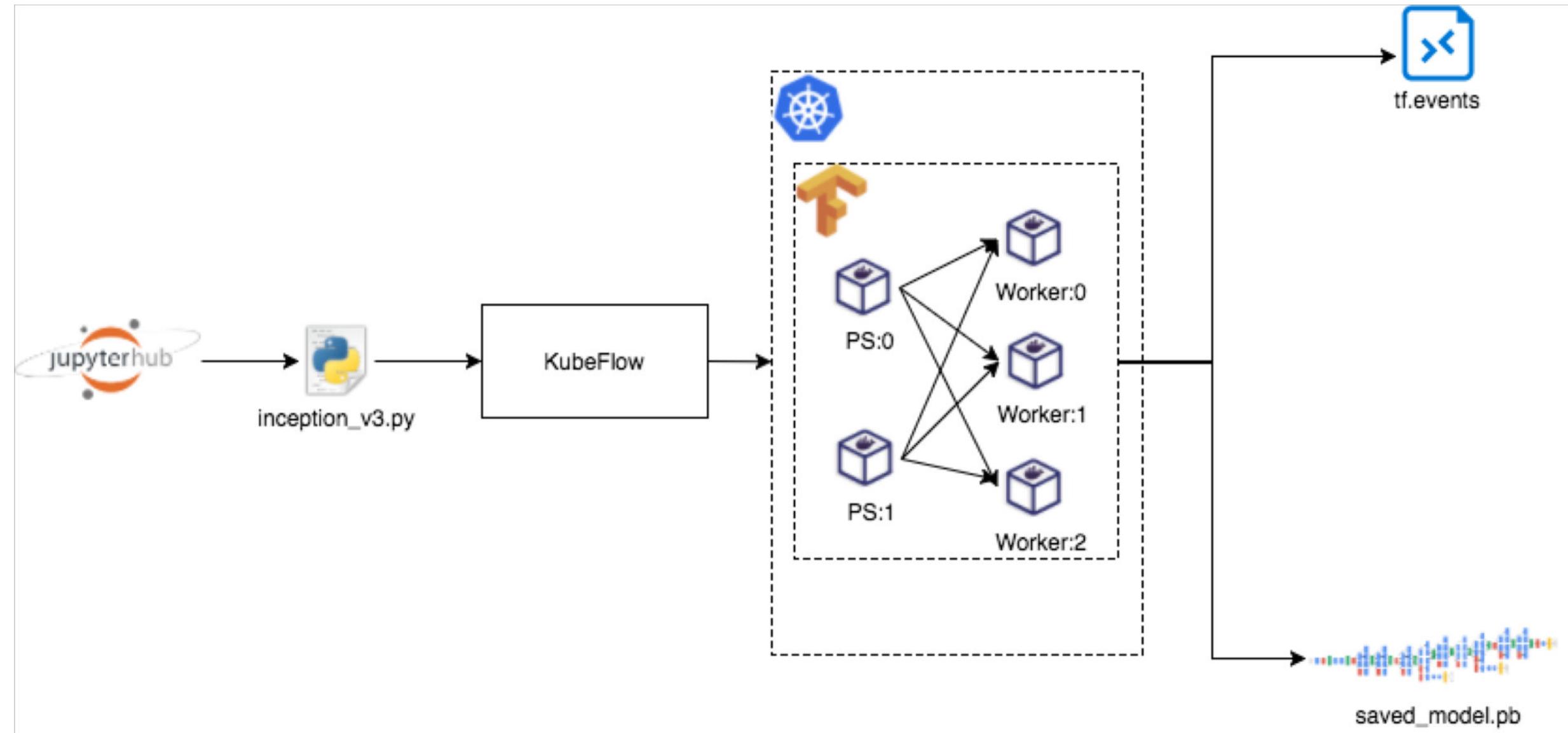
一个典型 AI 工作流程



模型训练



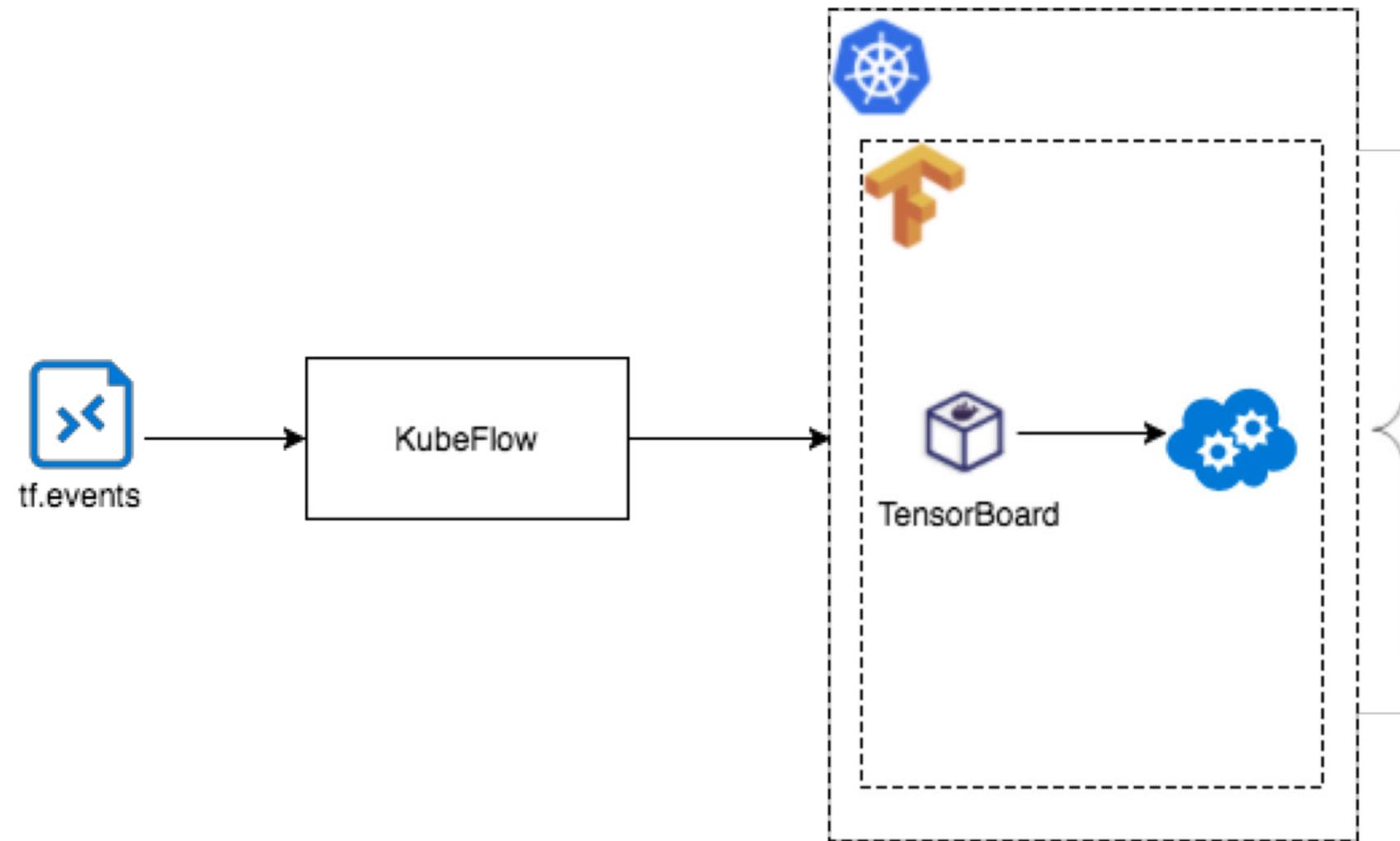
Kubeflow



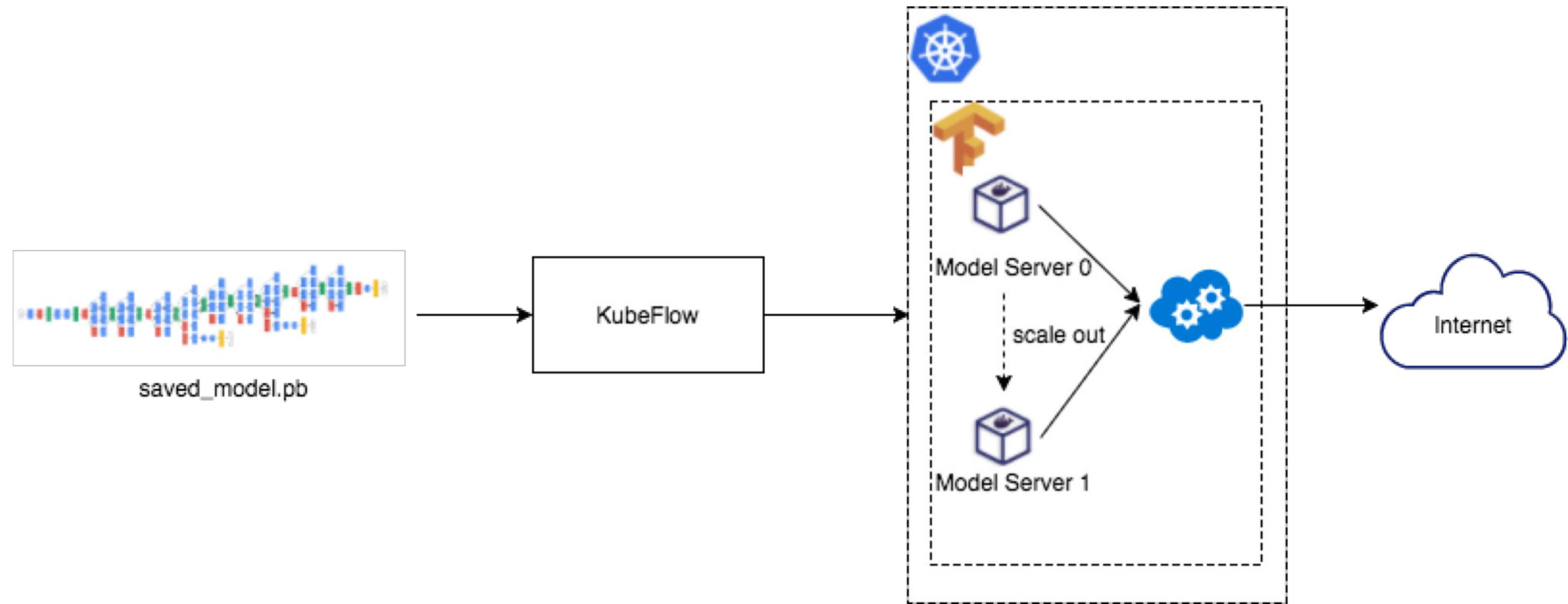
模型可视化



Kubeflow



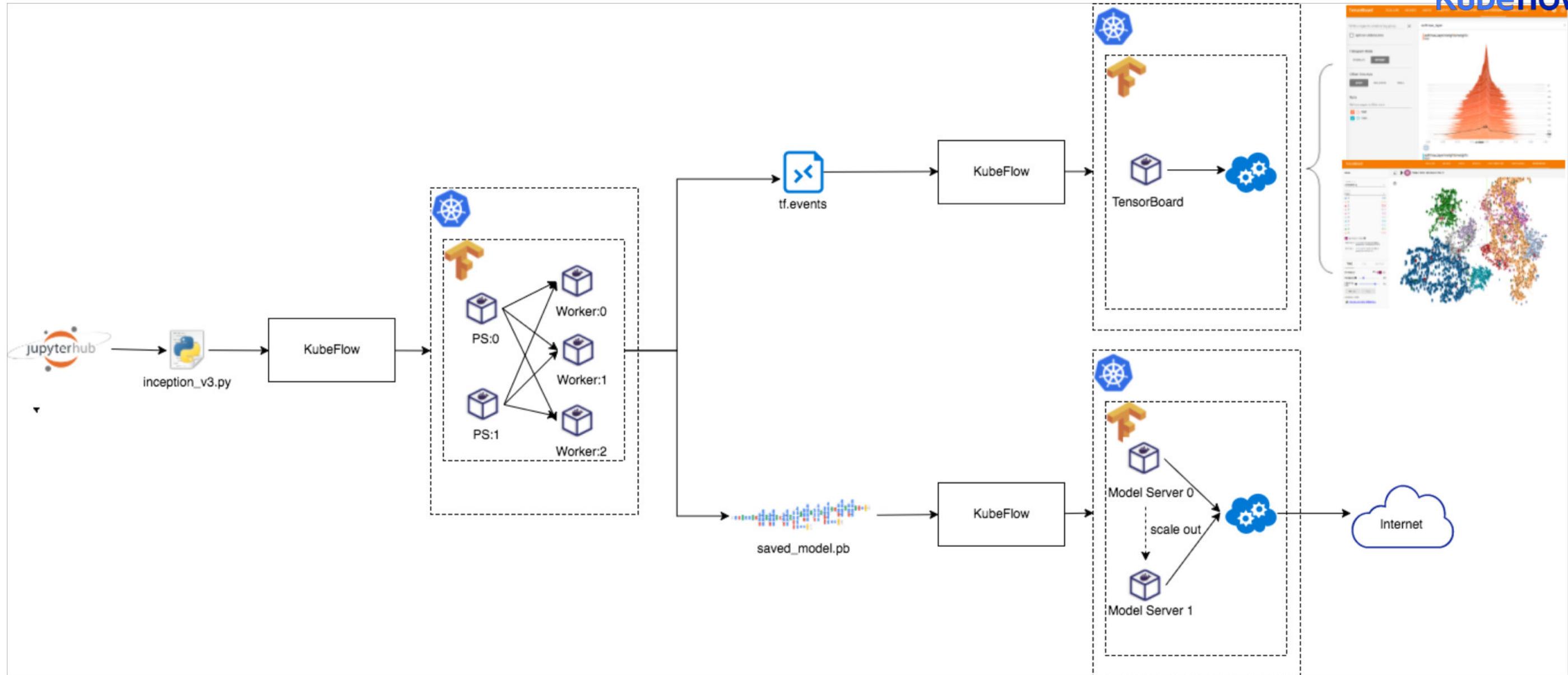
模型服务



数据-模型-服务 流水线



Kubeflow



Kubeflow 开源项目



Kubeflow

kubeflow / kubeflow

Code Issues 434 Pull requests 26 Projects 0 Wiki Insights

Unwatch 319 Star 6,089 Fork 843

Machine Learning Toolkit for Kubernetes

ml kubernetes minikube tensorflow notebook google-kubernetes-engine jupyter machine-learning kubeflow

1,124 commits 7 branches 45 releases 135 contributors Apache-2.0

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

johnugeorge and k8s-ci-robot Adding backOffLimit field to metric collector spec (#2597) Latest commit 922382e a day ago

bootstrap Added unit tests for GetUpdatedPolicy at gcpUtils.go - bootstrap/app (#...) 6 days ago

build Update python code styles based on what's provided in .style.yapf (#2447) 12 days ago

components updated jupyter images to allow any origin (#2606) 2 days ago



Kubernetes 开源项目

[kubernetes / kubernetes](https://github.com/kubernetes/kubernetes)

Watch 2,912 Star 49,002 Fork 16,958

Code Issues 2,143 Pull requests 1,010 Projects 12 Insights

Production-Grade Container Scheduling and Management <https://kubernetes.io>

kubernetes go cncf containers

75,554 commits 39 branches 488 releases 2,044 contributors Apache-2.0

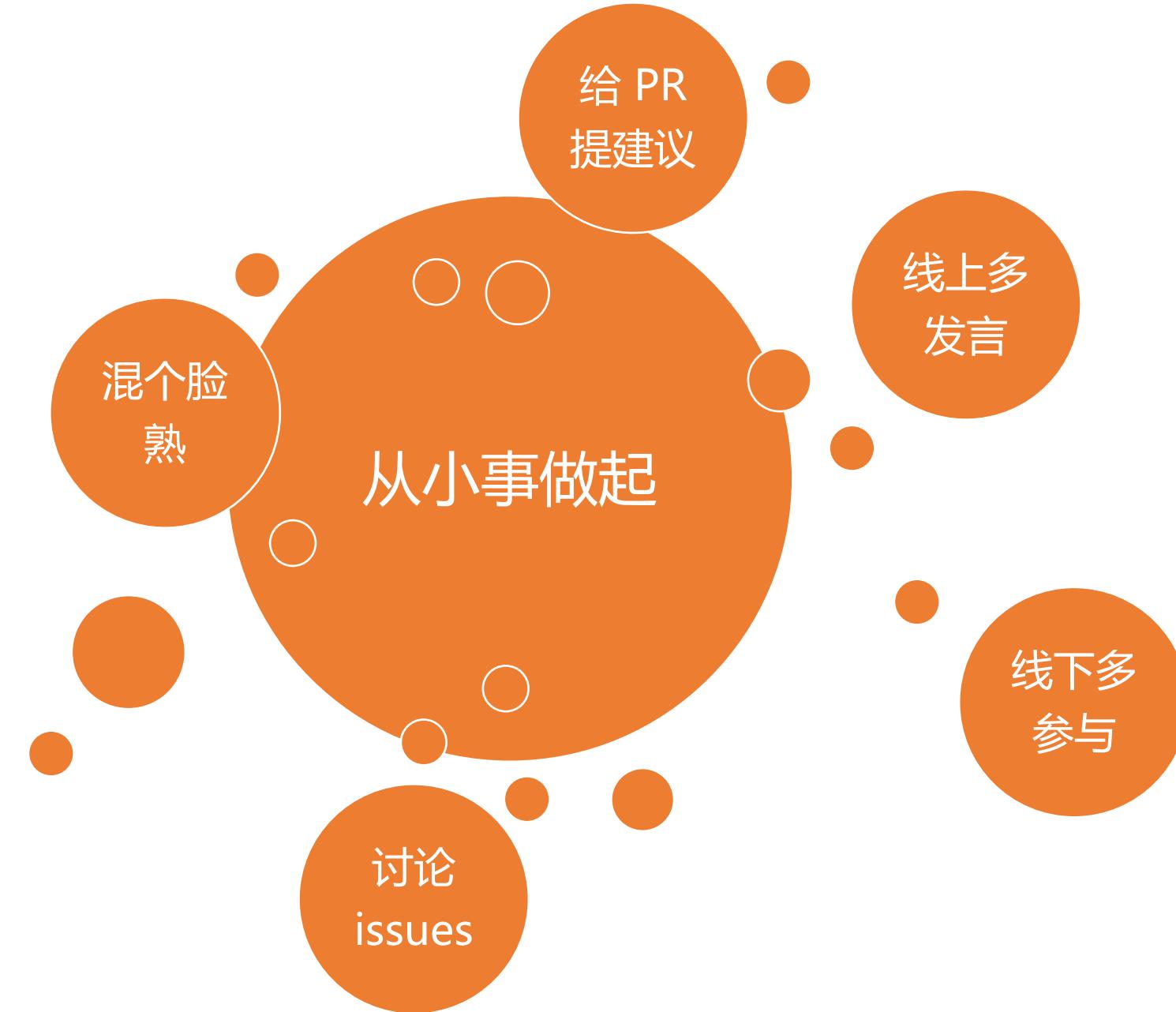
Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

k8s-ci-bot Merge pull request #74869 from neolit123/fix-reset-fetch ... Latest commit 3b4a9e4 22 minutes ago

.github	delete all duplicate empty blanks	9 days ago
Godeps	bump(k8s.io/kube-openapi): b3a7cee44a305be0a69e1b9ac03018307287e1b0	3 days ago
api	Merge pull request #74596 from sttts/sttts-remove-postprocess-paths	4 days ago
build	Merge pull request #74632 from cblecker/go-1.12	3 days ago

如何参与 TensorFlow 社区开源贡献

“不积跬步，无以至千里”



参与 issue 讨论

tensorflow / tensorflow

Watch 8,605 Star 121,680 Fork 72,459

Code Issues 1,751 Pull requests 331 Projects 1 Insights

Filters is:open label:2.0 Labels 64 Milestones 7 New issue

Clear current search query, filters, and sorts

① 92 Open ✓ 46 Closed	Author ▾	Projects ▾	Labels ▾	Milestones ▾	Assignee ▾	Sort ▾
① [TF 2.0] Support for TFGAN. 2.0 #26303 opened 9 hours ago by dynamicwebpaige						
① [TF 2.0] StridedSlice issue with empty slice. 2.0 #26302 opened 9 hours ago by dynamicwebpaige						
① [TF 2.0] Conversion script fails to parse IPython functions. 2.0 good first issue #26294 opened a day ago by dynamicwebpaige					 1	
① In a @tf.function, after `for i in tf.range(10)`, i is still undefined 2.0 #26293 opened a day ago by ageron						
① Disabling tf.cond name scope 2.0 #26283 opened 2 days ago by guillaumekln						

尝试解决 issue

[tensorflow / tensorflow](#)

Watch 8,605 Star 121,680 Fork 72,459

Code Issues 1,751 Pull requests 331 Projects 1 Insights

Filters ▾ is:open label:"stat:contributions welcome" Labels 64 Milestones 7 New issue

Clear current search query, filters, and sorts

① 419 Open	✓ 813 Closed	Author ▾	Projects ▾	Labels ▾	Milestones ▾	Assignee ▾	Sort ▾
① CRF functions in TensorFlow 2.0	2.0 contrib stat:contributions welcome						3
#26167	opened 5 days ago by invencode						
① [TF 2.0 API Docs] tf.keras.applications.MobileNetV2	2.0 stat:contributions welcome type:docs						3
#25988	opened 10 days ago by JTunis						
① [TF 2.0 API Docs] tf.image.non_max_suppression	2.0 stat:contributions welcome type:docs						3
#25959	opened 11 days ago by RajeshThallam						
① Docker containers with Python 3.7	stat:contributions welcome type:build/install type:feature						3
#25939	opened 12 days ago by 2020testuser						
① [TF 2.0 API Docs] tf.math.add	2.0 stat:contributions welcome type:docs						4
#25846	opened 14 days ago by josephhaaga						

尝试解决 issue

[TF 2.0 API Docs] tf.math.add #25846

New issue

① Open

josephhaaga opened this issue 14 days ago · 4 comments



josephhaaga commented 14 days ago

+ 😊 ...

Please make sure that this is a documentation issue. As per our [GitHub Policy](#), we only address code/doc bugs, performance issues, feature requests and build/installation issues on GitHub.
tag:doc_template

System information

- TensorFlow version: 2.0
- Doc Link: https://www.tensorflow.org/versions/r2.0/api_docs/python/tf/math/add

Describe the documentation issue

Much like [#25802](#), documentation for `tf.math.add` is created from a generated file `python/ops/gen_math_ops.py`; a link to the file that generates `python/ops/gen_math_ops.py` would be handy for users.

`tf.math.add` could use a usage example, and a list of Errors raised.

We welcome contributions by users. Will you be able to update submit a PR (use the [doc style guide](#)) to fix the doc issue?

Yes



1



1

Assignees



dynamicwebpaige

Labels

2.0

stat:contributions welcome

type:docs

Projects

TensorFlow 2.0 (awaiting triage)

Milestone

No milestone

Notifications

Subscribe

You're not receiving notifications from this thread.

5 participants

为他人的 PR “添砖加瓦”

The screenshot shows the GitHub repository page for tensorflow/tensorflow. The repository has 8,605 watchers, 121,680 stars, and 72,459 forks. The 'Pull requests' tab is selected, showing 331 open pull requests. A search bar filters results for 'tensorflow lite'. The list includes several pull requests related to tensorflow lite, such as #26248, #26125, #26040, #25893, and #25785. Pull request #25785 is currently awaiting review.

PR ID	Title	Author	Status	Comments
#26248	Just want to confirm if this failure is intended	scottcjt	Open	4
#26125	typo fixes in tensorflow/lite	siju-samuel	Closed (Merged)	Approved
#26040	Support Tensorflow Lite for Windows	mattn	Open	2
#25893	Fix test sharding version 2	markdryan	Closed (Approved)	5
#25785	Please, approve iOS DeepLab Tensorflow Lite GPU example.	VolodymyrPavliukhevych	Awaiting Review	4

“遵守规范是共建社区的基础”

Contribution guidelines

If you want to contribute to TensorFlow, be sure to review the [contribution guidelines](#). This project adheres to TensorFlow's [code of conduct](#). By participating, you are expected to uphold this code.

We use [GitHub issues](#) for tracking requests and bugs, so please see [TensorFlow Discuss](#) for general questions and discussion, and please direct specific questions to [Stack Overflow](#).

The TensorFlow project strives to abide by generally accepted best practices in open-source software development:

cii best practices passing

ML GDE
TensorFlow 社区与开发者的桥梁

Google Developers Expert 介绍

Google Developers Expert (GDE) 是谷歌公司认可的在一个或多个谷歌开发者产品中拥有极强专业知识的人。

GDE 通过由 Google 建立和管理的 Google Developers Experts 计划认证。

The screenshot shows the Google Developers Experts search interface. At the top, there is a navigation bar with links for Products, Events, Developer Programs, and Blog. A search bar is also present. Below the navigation bar, the word "Experts" is displayed. The main area features a blue header with filter categories: TECHNOLOGY, PRODUCT, MARKETING, PRODUCT DESIGN, and LOCATION. Under the TECHNOLOGY filter, several checkboxes are listed: All (selected), Android, IoT, Wearables, Google Maps APIs, Web Technologies, Identity, Google Cloud Platform, Angular, Firebase, Kotlin, G Suite, Machine Learning (selected), Assistant, Flutter, Google Analytics, Dart, Payments, and Google APIs for iOS. At the bottom of the interface, two search terms are shown: "Technology" and "Machine Learning".

Dogfood - Google Products

The screenshot shows the Dogfood - Google Products website interface. At the top, there is a navigation bar with a search bar containing "Search projects" and a magnifying glass icon. To the right of the search bar are links for "Help", "Donate", "Log in", and "Register". Below the navigation bar, the main content area features a large title "tf-nightly-2.0-preview 2.0.0.dev20190304" in white text on a blue background. To the right of the title is a green button with a checkmark and the text "Latest version". Below the title, there is a code snippet "pip install tf-nightly-2.0-preview" with a copy icon next to it, and a timestamp "Last released: 23 minutes ago". The main content area also contains a brief description of TensorFlow: "TensorFlow is an open source machine learning framework for everyone." On the left side, there is a "Navigation" sidebar with three items: "Project description" (which is highlighted in blue), "Release history", and "Download files". On the right side, there is a "Project description" section with two paragraphs. The first paragraph describes TensorFlow as an open source software library for high performance numerical computation, mentioning its flexible architecture and deployment across various platforms. The second paragraph discusses its origins in the Google Brain team and its use in machine learning and deep learning.

TensorFlow is an open source machine learning framework for everyone.

Navigation

[Project description](#)

[Release history](#)

[Download files](#)

Project links

Project description

TensorFlow is an open source software library for high performance numerical computation. Its flexible architecture allows easy deployment of computation across a variety of platforms (CPUs, GPUs, TPUs), and from desktops to clusters of servers to mobile and edge devices.

Originally developed by researchers and engineers from the Google Brain team within Google's AI organization, it comes with strong support for machine learning and deep learning and the flexible numerical computation core is used across many other scientific domains.

线上快速反馈社区问题

[ML GDE] [TensorFlow Docs] Feedback Survey

'Paige Bailey' via ML GDE Jan 19
Documentation enthusiasts! As a follow-up to Billy's excellent Docs post: we're always working to improve our TensorFlow documentation, and a...

me to Paige, ML, TensorFlow, Discuss Jan 21
Hi Paige,

I noticed that the whole [tf.contrib.learn](#) module has been deprecated.

Branch: master tensorflow / tensorflow / contrib / learn /

tensorflower-gardener Merge pull request #24733 from Dayananda-V:24683_1 ... Latest commit 90d637a 5 days ago

..

python Merge pull request #24733 from Dayananda-V:24683_1 5 days ago

BUILD internal cleanup 2 months ago

README.md Correct some tf.contrib references that have recently moved to core i... 3 months ago

__init__.py Clear deleted api_guide links. 3 months ago

README.md

EVERYTHING IN THIS DIRECTORY IS DEPRECATED.
Using functions or classes will result in warnings.

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Training and Evaluating the CNN MNIST Classifier

We've coded our MNIST CNN model function; now we're ready to train and evaluate it.

Load Training and Test Data

First, let's load our training and test data. Add a `main()` function to `cnn_mnist.py` with the following code:

```
def main(unused_argv):
    # Load training and eval data
    mnist = tf.contrib.learn.datasets.load_dataset("mnist")
    train_data = mnist.train.images # Returns np.array
    train_labels = np.asarray(mnist.train.labels, dtype=np.int32)
    eval_data = mnist.test.images # Returns np.array
    eval_labels = np.asarray(mnist.test.labels, dtype=np.int32)
```

Even though we have `keras.datasets` module as an alternative way, we still need to check the tutorial in tensorflow.org as P0 task to explain and replace the demo code.

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 **Paige Bailey** to me, Billy, Mark, ML, TensorFlow  Jan 21 

Jingtian -
Thank you so much for highlighting this!

And you are correct: any TensorFlow tutorials or docs that use `tf.contrib.learn.datasets.load_dataset()` will need to be updated.

cc: [@Billy_Lamberta](#) [@Mark_Daoust](#)
-discuss@tensorflow.org

...

 **Billy Lamberta** to Paige, me, Mark, ML, TensorFlow  Jan 21 

Hi Jingtian,

Yes, good observation. We are planning to migrate the tutorials over to TF Datasets when it's released: <https://github.com/tensorflow/datasets> (a project I'm pretty excited about). And when that happens, we may need to send out a community call for pull requests to update everything :)

Thanks,
Billy

...

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Thanks