introduction to tensorflow

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Introduction to TensorFlow

TensorFlow makes it easy for beginners and experts to create machine learning models for desktop, mobile, web, and cloud. See the sections below to get started.

TensorFlow ecosystem

TensorFlow provides a collection of workflows to develop and train models using Python or JavaScript, and to easily deploy in the cloud, on-prem, in the browser, or on-device no matter what language you use.

TensorFlow Products

TensorFlow

Learn the foundation of TensorFlow with tutorials for beginners and experts to help you create your next machine learning project.

Learn more

For JavaScript

Use TensorFlow.js to create new machine learning models and deploy existing models with JavaScript.

Learn more

For Mobile & IoT

Run inference with TensorFlow Lite on mobile and embedded devices like Android, iOS, Edge TPU, and Raspberry Pi.
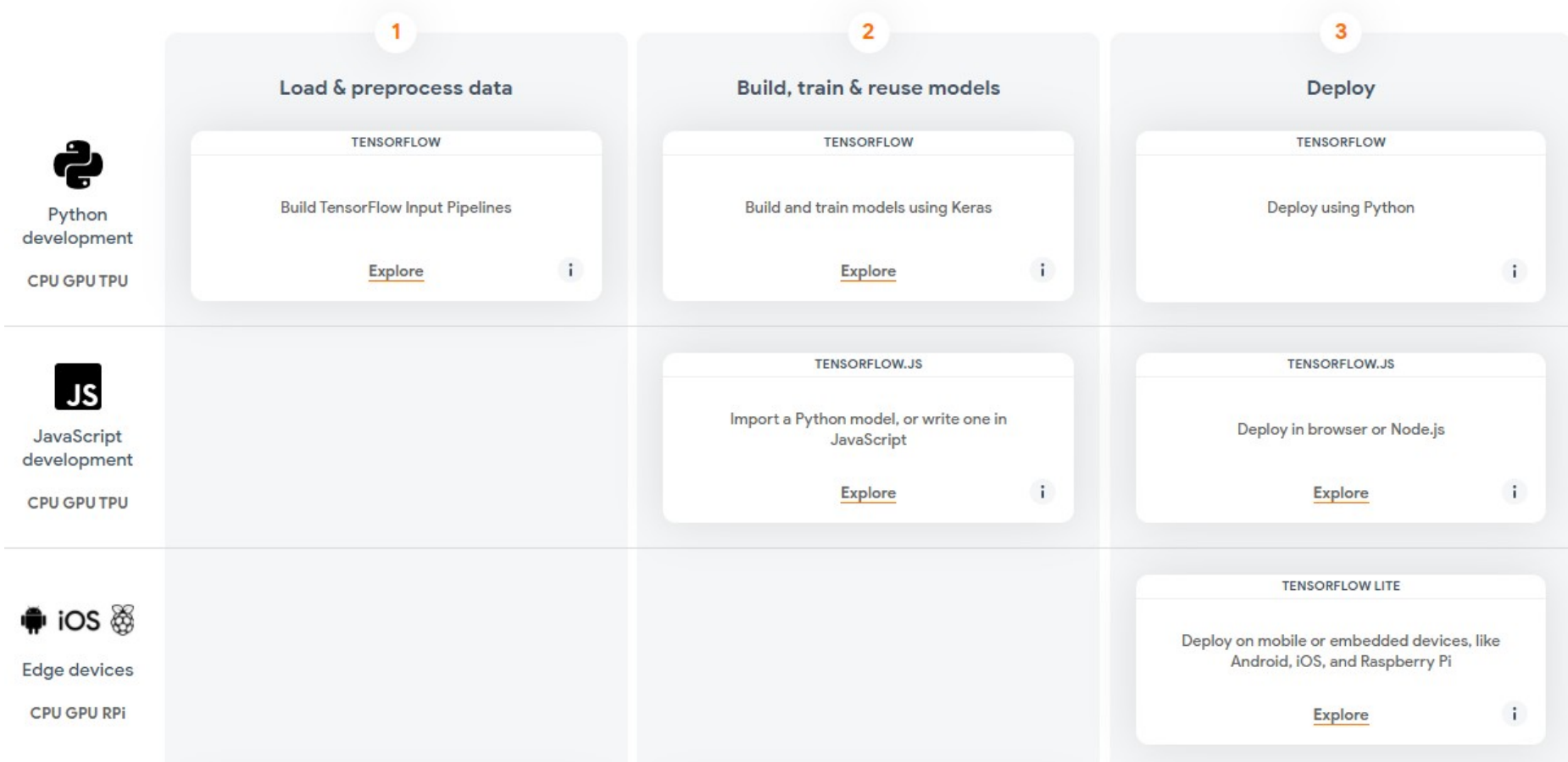
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For Production

Deploy a production-ready ML pipeline for training and inference using TensorFlow Extended (TFX).

Learn more

TensorFlow Ecosystem

	1 Load & preprocess data	**2** Build, train & reuse models	**3** Deploy
Python development CPU GPU TPU	**TENSORFLOW** Build TensorFlow Input Pipelines Explore ⓘ	**TENSORFLOW** Build and train models using Keras Explore ⓘ	**TENSORFLOW** Deploy using Python Explore ⓘ
JavaScript development CPU GPU TPU		**TENSORFLOW.JS** Import a Python model, or write one in JavaScript Explore ⓘ	**TENSORFLOW.JS** Deploy in browser or Node.js Explore ⓘ
Edge devices CPU GPU RPi			**TENSORFLOW LITE** Deploy on mobile or embedded devices, like Android, iOS, and Raspberry Pi Explore ⓘ

	1	**2**	**3**
	Load & preprocess data	Build, train & reuse models	Deploy

End-to-end production

CPU GPU TPU

TFX

Validate input data with TF Data Validation

Explore   i

↓

TFX

Feature engineering with TF Transform

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TFX

Modeling and training

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↓

TFX

Understanding model performance with TF model analysis

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TFX

Serve models with a REST API with TF Serving

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Tools

TENSORBOARD

TensorBoard is a tool to visualize training and results

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TENSORFLOW HUB

TensorFlow Hub is an extensive library of existing models

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Learning TensorFlow

Looking to expand your ML knowledge?

TensorFlow is easier to use with a basic understanding of machine learning principles and core concepts. Learn and apply fundamental machine learning practices to develop your skills.

Learn ML

Begin with curated curriculums to improve your skills in foundational ML areas.

Learn more →

Get started with TensorFlow

Explore tutorials

https://www.tensorflow.org/tutorials