

What's New in TensorFlow

TensorFlow is a powerful open-source machine learning library that has become increasingly popular in recent years. It is used by researchers and developers to build and train a wide variety of machine learning models. With each new release, TensorFlow adds new features and improvements that make it even more powerful and versatile. In this article, we will take a look at some of the most important new features in TensorFlow 2.0.

Eager Execution

One of the most significant changes in TensorFlow 2.0 is the of eager execution. Eager execution allows you to run TensorFlow operations immediately, without having to build a computational graph first. This makes it much easier to debug your code and experiment with different model architectures.

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What's New in TensorFlow 2.0

by Ajay Baranwal

★★★★★ 4.6 out of 5

Language :
File size :
Text-to-Speech :
Screen Reader :
Enhanced typesetting :
Print length :

FREE

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To use eager execution, simply set the `tf.executing_eagerly()` flag to `True`. For example:

```
python import tensorflow as tf

tf.executing_eagerly() x = tf.constant([[1, 2], [3, 4]]) y = tf.nn.softmax(x)

print(y)
```

This code will print the following output:

```
[[0.26894142 0.73105858] [0.26894142 0.73105858]]
```

Keras Integration

TensorFlow 2.0 also includes a deep integration with Keras, a high-level neural networks API. Keras makes it easy to build and train machine learning models, even if you don't have a lot of experience with deep learning.

To use Keras with TensorFlow 2.0, simply import the `keras` module. For example:

```
python import tensorflow as tf from keras import models, layers

model = models.Sequential([ layers.Dense(units=10, activation='relu',
input_shape=(784,)),layers.Dense(units=10,
activation='relu'),layers.Dense(units=10, activation='softmax') ])
```

This code creates a simple neural network model that can be used to classify handwritten digits.

TFX

TFX is a new end-to-end machine learning platform that makes it easier to build, train, and deploy machine learning models. TFX provides a set of tools and libraries that can be used to automate the entire machine learning pipeline, from data preprocessing to model deployment.

TFX is still under development, but it has the potential to revolutionize the way that machine learning models are built and deployed. To learn more about TFX, visit the TFX website.

TensorFlow 2.0 is a major release that includes a number of significant new features and improvements. These new features make TensorFlow even more powerful and versatile, making it the perfect choice for building and training machine learning models.

If you're interested in learning more about TensorFlow 2.0, I recommend checking out the following resources:

- TensorFlow tutorials
- TensorFlow API documentation
- TensorFlow community forum

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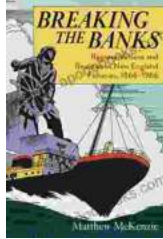
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Language : Python

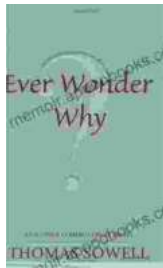
JyNWUyIiwicyl6ImQ2Zjl1NTkzZjk2OGJjN2EifQ%3D%3D) File size :
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