sagemaker

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Contents

Amazon SageMaker Python SDK is an open source library for training and deploying machine-learned models on Amazon SageMaker.

With the SDK, you can train and deploy models using popular deep learning frameworks: **Apache MXNet** and **TensorFlow**. You can also train and deploy models with **algorithms provided by Amazon**, these are scalable implementations of core machine learning algorithms that are optimized for SageMaker and GPU training. If you have **your own algorithms** built into SageMaker-compatible Docker containers, you can train and host models using these as well.

Here you'll find API docs for SageMaker Python SDK. The project home-page is in Github: https://github.com/aws/sagemaker-python-sdk, there you can find the SDK source, installation instructions and a general overview of the library there.

CHAPTER 1

Overview

The SageMaker Python SDK consists of a few primary interfaces:

1.1 Estimators

A high level interface for SageMaker training

1.2 Predictors

Make real-time predictions against SageMaker endpoints with Python objects

1.3 Session

1.4 Model

CHAPTER 2

MXNet

A managed environment for MXNet training and hosting on Amazon SageMaker

2.1 MXNet

2.1.1 MXNet Estimator

2.1.2 MXNet Model

2.1.3 MXNet Predictor

CHAPTER 3

TensorFlow

A managed environment for TensorFlow training and hosting on Amazon SageMaker

3.1 TensorFlow

3.1.1 TensorFlow Estimator

3.1.2 TensorFlow Model

3.1.3 TensorFlow Predictor

CHAPTER 4

SageMaker First-Party Algorithms

Amazon provides implementations of some common machine learning algortithms optimized for GPU archicture and massive datasets.

4.1 K-means

The Amazon SageMaker K-means algorithm.

4.2 PCA

The Amazon SageMaker PCA algorithm.

4.3 LinearLearner

The Amazon SageMaker LinearLearner algorithm.