Alibaba Cloud

Machine Learning Platform for AI

Best Practices

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Document conventions

Style	Description	Example
<u> Danger</u>	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	Danger: Resetting will result in the loss of user configuration data.
<u> </u>	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	Warning: Restarting will cause business interruption. About 10 minutes are required to restart an instance.
Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	Notice: If the weight is set to 0, the server no longer receives new requests.
? Note	A note indicates supplemental instructions, best practices, tips, and other content.	? Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings> Network> Set network type.
Bold	Bold formatting is used for buttons , menus, page names, and other UI elements.	Click OK.
Courier font	Courier font is used for commands	Run the cd /d C:/window command to enter the Windows system folder.
Italic	Italic formatting is used for parameters and variables.	bae log listinstanceid Instance_ID
[] or [a b]	This format is used for an optional value, where only one item can be selected.	ipconfig [-all -t]
{} or {a b}	This format is used for a required value, where only one item can be selected.	switch {active stand}

Table of Contents

1.Overview ----- 05

1.0verview

This topic describes the best practices of Machine Learning Platform for AI (PAI).

Popular topics

Overview

Machine Learning Studio

- Recommendation
 - Use ALS to predict ratings of songs
 - Use FM-Embedding for matching recall
 - Use the FM algorithm to create a recommendation model
 - Use collaborative filtering to recommend products
 - Use Bipartite GraphSAGE for matching recall
- Intelligent risk control
 - Use graph algorithms to manage financial risks
 - o Predict credit scores by using a scorecard model
 - Predict system anomalies by monitoring system metrics
 - Monitor user churn
- Classification
 - Use PAI-TensorFlow to build an image classification model
- Predict heart disease
- Predict the repayment ability of agricultural loan applicants based on linear regression
- Predict the performance of students in examinations
- Build models to predict the hazy weather
- Build a model to predict the output power of a power plant

DSW

- Use WebIDE to debug code online
- Use EasyVision to detect objects

EAS

• Deployment of a PS-LR model

SDKs

PAI-TensorFlow

- Use PAI-TensorFlow to implement the distributed DeepFM algorithm
- Use PAI-TensorFlow to build an image classification model
- Fast NN