Use Amazon SageMaker Built-in Algorithms or Pre-trained Models

PDF (/pdfs/sagemaker/latest/dg/sagemaker-dg.pdf#algos) | RSS (amazon-sagemaker-release-notes.rss)

Amazon SageMaker provides a suite of built-in algorithms, pre-trained models, and pre-built solution templates to help data scientists and machine learning practitioners get started on training and deploying machine learning models quickly. For someone who is new to SageMaker, choosing the right algorithm for your particular use case can be a challenging task. The following table provides a quick cheat sheet that shows how you can start with an example problem or use case and find an appropriate built-in algorithm offered by SageMaker that is valid for that problem type. Additional guidance organized by learning paradigms (supervised and unsupervised) and important data domains (text and images) is provided in the sections following the table.

Table: Mapping use cases to built-in algorithms

Example problems and use cases	Learning paradigm or domain	Problem types	Data input	Built-in algorithms

			format	
Here a few examples out of the 15 problem types that can be addressed by the pre-trained models and pre-built solution templates provided by SageMaker JumpStart: Question answering: chatbot that outputs an answer for a given question. Text analysis: analyze texts from models specific to an industry domain such as finance.	Pre-trained models and pre-built solution templates (https://docs.aws.amazon.com/sagemaker/latest/dg/studio-jumpstart.html)	Image Classification Tabular Classification Tabular Regression Text Classification Object Detection Text Embedding Question Answering	Image, Text, Tabular	Popular models, including Mobilenet, YOLO, Faster R-CNN, BERT, lightGBM, and CatBoost For a list of pre-trained models available, see JumpStart Models (https://docs.aws.amazon.com/sagemaker/latest/dg/studio-jumpstart.html#jumpstart-models) . For a list of pre-built solution templates available, see JumpStart Solutions (https://docs.aws.amazon.com/sagemaker/latest/dg/studio-jumpstart.html#jumpstart-solutions) .