

Machine learning often needs to be continually built and updated as changes in requirements or performance lead to a suboptimal model. In order to make the process easier, building a model deployment workflow organizes the development and makes it more efficient.

In this lesson, we will learn how to:

- Load a new dataset, create the 3 different data set types, and identify features and values, all within SageMaker Studio IDE.
- Clean or create new features from a dataset using Pandas.
- Evaluate a trained model using metrics like MSE, RMSE, R2, accuracy, F1, and precision.
- Tune a model's hyperparameters to achieve a better result.

Together these tools will provide the skills necessary to build your own workflow that can be used to iterate and improve your models quickly.

**NEXT**