Preparing Data for Feature Engineering and Machine Learning in Microsoft Azure

GETTING STARTED WITH AZURE MACHINE LEARNING



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Why Data Preparation Is Important?





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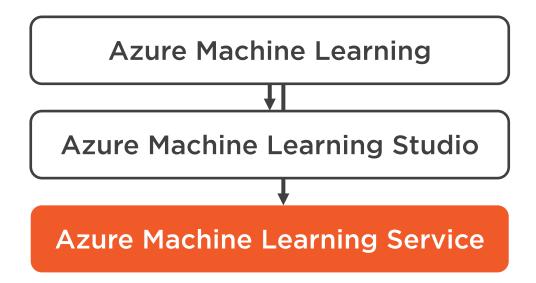




Agenda



Machine Learning



Explore the dataset

What Is Machine Learning?

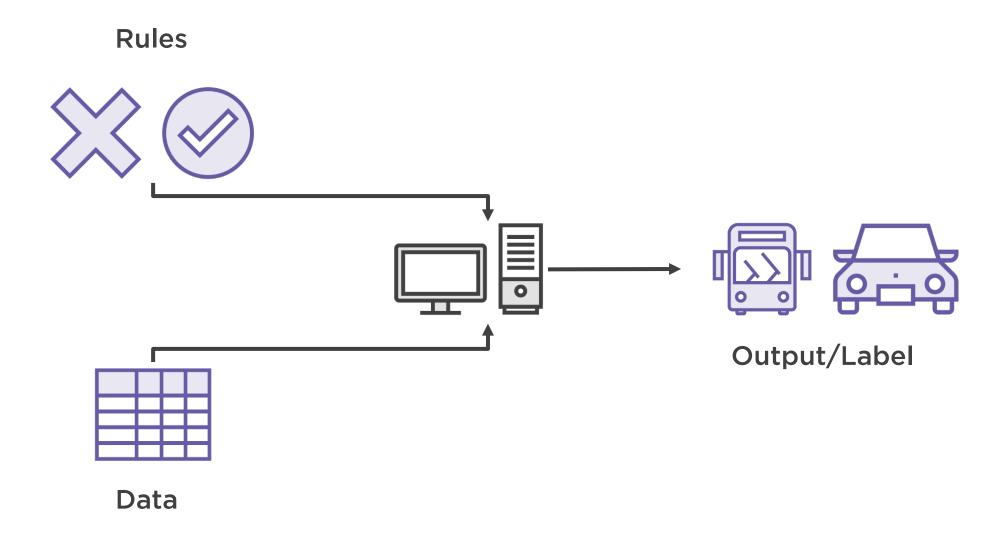


A field of study that gives computers the ability to learn without being explicitly programmed.

Arthur Samuel



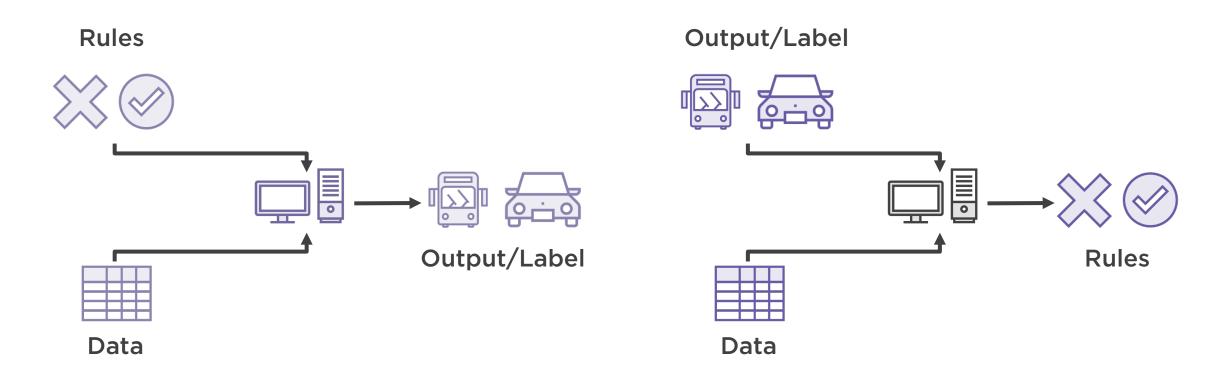
Traditional Programming

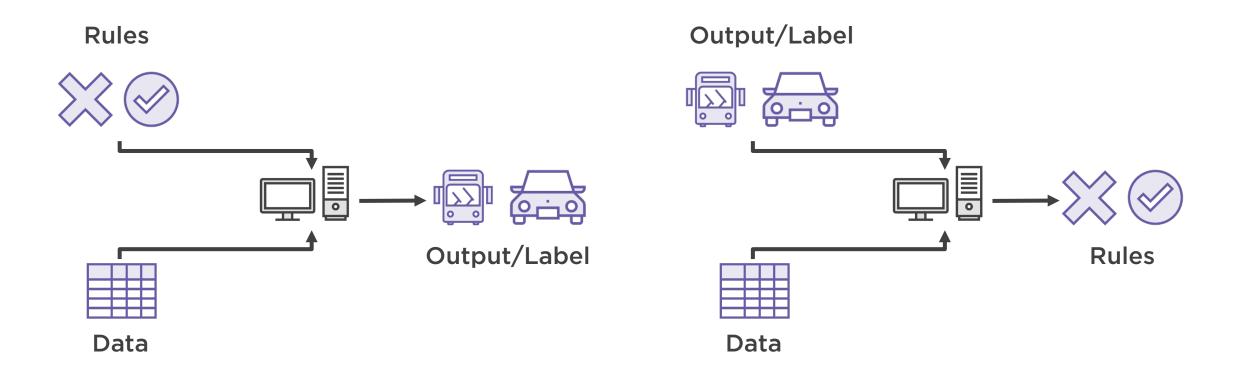


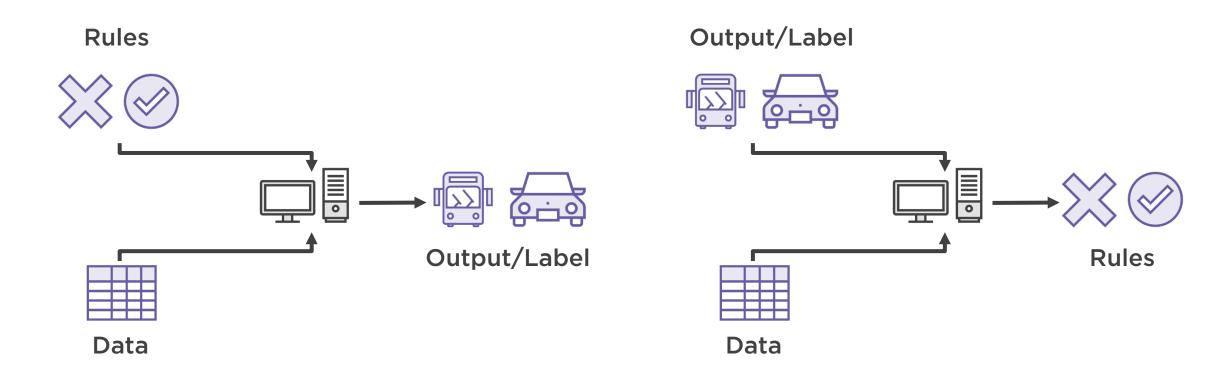
Machine Learning

Output/Label Rules Data



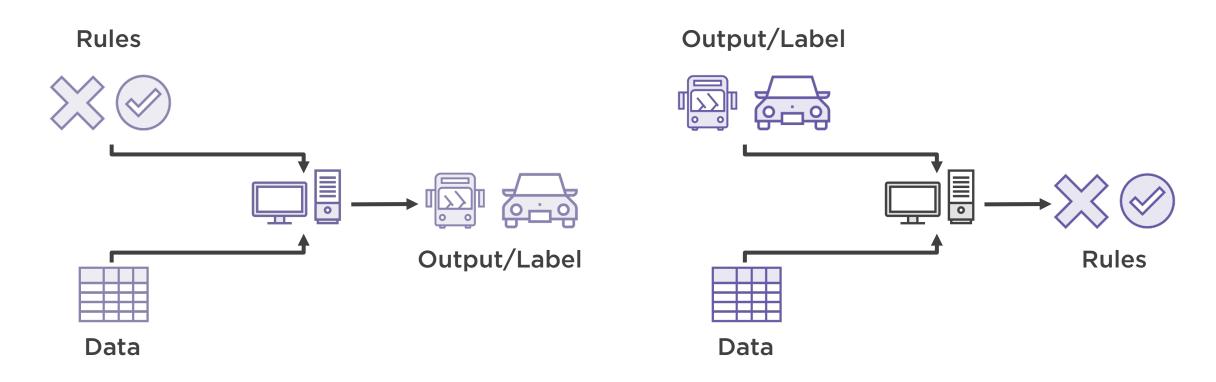






Accuracy: 100% Accuracy: < 100%



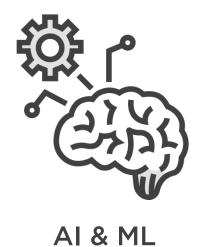


Learn by Memorization

Learn by Comprehension





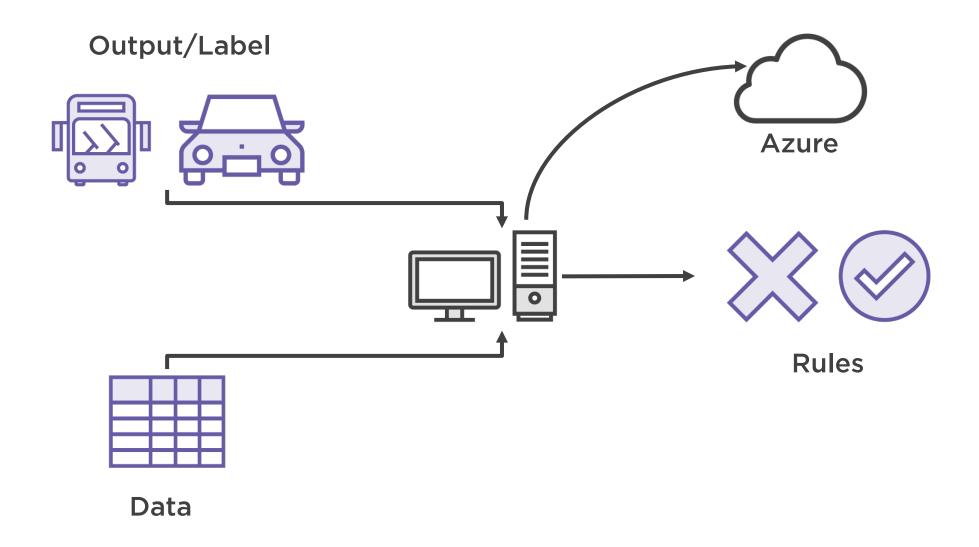




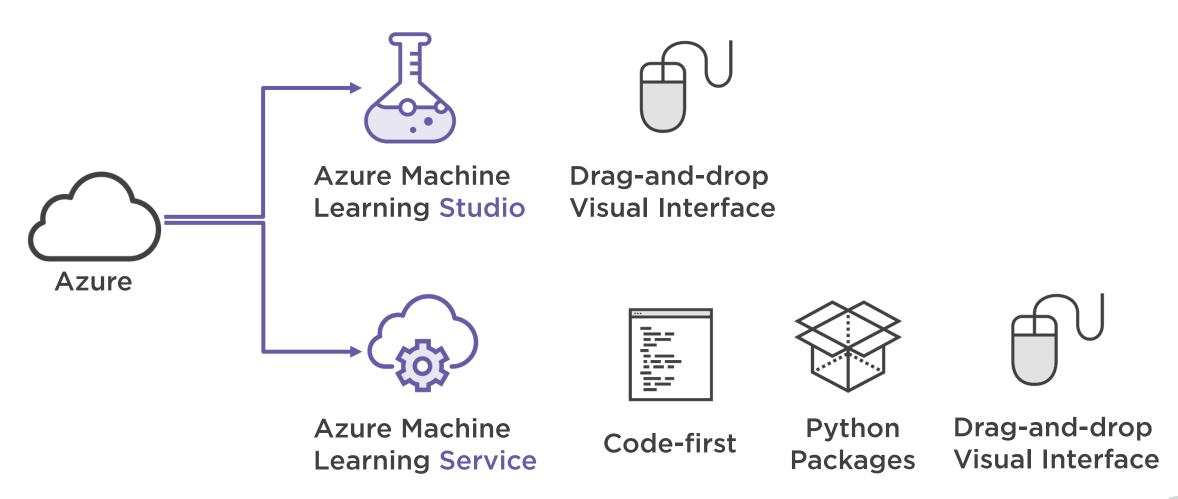
Introduction to Azure Machine Learning



Azure Machine Learning



Azure Machine Learning





Azure Machine Learning



Azure Machine Learning Studio



Azure Machine Learning Service

Only Proprietary Compute use
Only CPU

Custom Compute

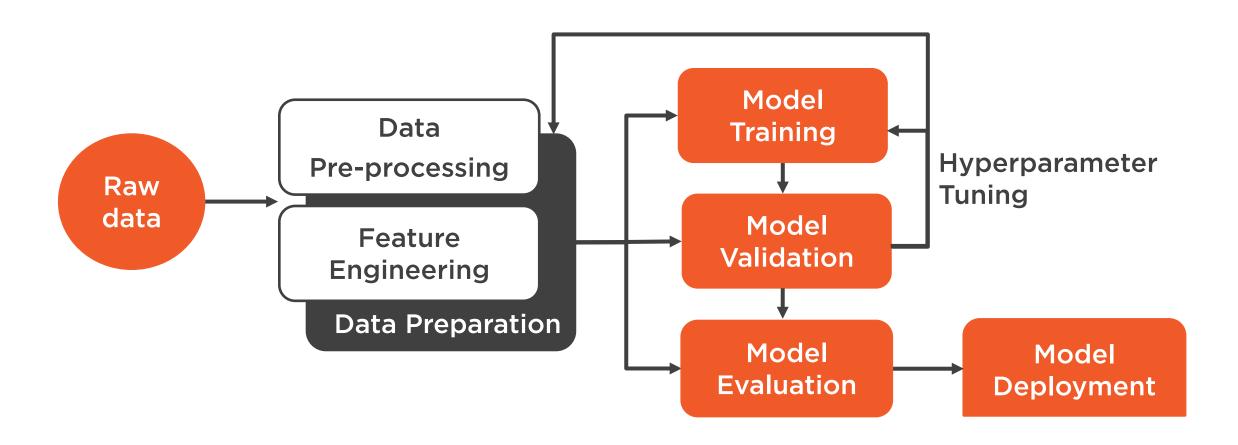
GPU support available



Azure Machine Learning Experiment Workflow



Azure Machine Learning Experiment Workflow



Prerequisites

Statistical Concepts

Azure



Summary



Machine Learning works

Azure Machine Learning

Data Preparation may not be a glamorous task

