# Automated Machine Learning

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## What is automated machine learning(autoML)?

The process of automating the time consuming, iterative tasks of machine learning model development.

It allows data scientists, analysts, and developers to build ML models with high scale, efficiency, and productivity all while sustaining model quality.

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Traditional machine learning model development is resourceintensive, requiring significant domain knowledge and time to produce and compare dozens of models.

Apply automated ML when you want Azure Machine Learning to train and tune a model for you using the target metric you specify.

The service then iterates through ML algorithm paired with feature selections, where each iteration produces a model with a training score. The higher the score, the better the model is considered to "fit" your data.

## What is automated machine learning(autoML)?

With automated machine learning, you'll accelerate the time it takes to get production-ready ML models with great ease and efficiency.

#### When to use automated ML?

Automated ML democratizes the machine learning model development process, and empowers its users, no matter their data science expertise, to identity and end-to-end machine learning pipeline for any problem.

#### When to use automated ML?

Data scientists, analysts and developers across industries can use automated ML to:

- Implement machine learning solutions without extensive programming knowledge
- Save time and resources
- Leverage data science best practices
- Provide agile problem-solving

### Demo

#### Resources

https://docs.microsoft.com/en-us/azure/machine-learning/service/concept-automated-ml