



1300 XP

# Fundamentals of machine learning

1 hr 54 min • Module12 Units

Beginner

AI Engineer

Data Scientist

Azure Machine Learning

Machine learning is the basis for most modern artificial intelligence solutions. A familiarity with the core concepts on which machine learning is based is an important foundation for understanding AI.

## Learning objectives

After completing this module, you will be able to:

- Describe core concepts of machine learning
- Identify different types of machine learning
- Describe considerations for training and evaluating machine learning models
- Describe core concepts of deep learning
- Use automated machine learning in Azure Machine Learning service

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## Prerequisites

Before starting this module, you should have:

- A basic knowledge of mathematics
- Familiarity with Microsoft Azure and cloud computing

## This module is part of these learning paths

[Microsoft Azure AI Fundamentals: AI Overview](#)

### Introduction

1 min

### What is machine learning?

5 min

### Types of machine learning

10 min

## Regression

12 min

## Binary classification

12 min

## Multiclass classification

12 min

## Clustering

10 min

## Deep learning

12 min

## Azure Machine Learning

6 min

## Exercise - Explore Automated Machine Learning in Azure Machine Learning

30 min

## Knowledge check

3 min

## Summary

1 min