

ML Concepts

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Logistic Regression



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Estimated module length: 35 minutes

Learning Objectives

- Identify use cases for performing logistic regression.
- Explain how logistic regression models use the sigmoid function to calculate probability.
- Compare linear regression and logistic regression.
- Explain why logistic regression uses log loss instead of squared loss.
- Explain the importance of regularization when training logistic regression models.

Prerequisites:

This module assumes you are familiar with the concepts covered in the following modules:

- Introduction to Machine Learning
- Linear regression

In the [Linear regression module](#), you explored how to construct a model to make continuous numerical predictions, such as the fuel efficiency of a car. But what if you want to build a model to answer questions like "Will it rain today?" or "Is this email spam?"

This module introduces a new type of regression model called [logistic regression](#) that is designed to predict the probability of a given outcome.



Key terms:

- Logistic regression

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