1000 XP ▶

Train and understand regression models in machine learning

49 min remaining • Module • 1 of 9 units completed

★★★★★ 4.8 (50)   Rate it

Beginner   AI Engineer   Data Scientist   Student   Azure

Regression is arguably the most widely used machine learning technique, commonly underlying scientific discoveries, business planning, and stock market analytics. This learning material takes a dive into some common regression analyses, both simple and more complex, and provides some insight on how to assess model performance.

Learning objectives

In this module, you will:

- Understand how regression works
- Work with new algorithms: Linear regression, multiple linear regression, and polynomial regression
- Understand the strengths and limitations of regression models
- Visualize error and cost functions in linear regression
- Understand basic evaluation metrics for regression

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Prerequisites

Familiarity with machine learning models

This module is part of these learning paths

Understand data science for machine learning

Foundations of data science for machine learning

Introduction
2 min

What is regression?
4 min

Exercise - Train a simple linear regression model
8 min

Multiple linear regression and R-squared
4 min

Exercise - Train a multiple linear regression model
10 min

Polynomial Regression
6 min

Exercise - Polynomial regression
12 min

Knowledge check
3 min

Summary ✓
3 min