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# Machine Learning with Python-From Linear Models to Deep Learning

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## 2. Objectives

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### Linear Regression

At the end of this lecture, you will be able to

- write the training error as least squares criterion for linear regression
- use stochastic gradient descent for fitting linear regression models
- solve closed-form linear regression solution
- identify regularization term and how it changes the solution, generalization

### Discussion

**Topic:** Unit 2. Nonlinear Classification, Linear regression, Collaborative Filtering (2 weeks):Lecture 5. Linear Regression / 2. Objectives

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