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## 2. Objectives

### Linear Regression

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

- Understand the **goals of regression** .
- Identify the **regression function** and know what property of the **dependent** random variable the regression function is trying to capture as a function of the **explanatory variables** .
- Plot and understand **box-and-whisker plots** .
- Know the **linear regression function** .
- Understand the **theoretical** and **empirical** linear regression solutions.
- Write the linear regression problem as a **noisy linear model** .

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