

## 2 Regression

0%

In the previous chapter, you made use of image and political datasets to predict binary as well as multiclass outcomes. But what if your problem requires a continuous outcome? Regression, which is the focus of this chapter, is best suited to solving such problems. You will learn about fundamental concepts in regression and apply them to predict the life expectancy in a given country using Gapminder data.

▶ Introduction to regression	50 xp
☰ Which of the following is a regression problem?	50 xp
</> Importing data for supervised learning	100 xp
☰ Exploring the Gapminder data	50 xp
▶ The basics of linear regression	50 xp
</> Fit & predict for regression	100 xp
</> Train/test split for regression	100 xp
▶ Cross-validation	50 xp
</> 5-fold cross-validation	100 xp
</> K-Fold CV comparison	100 xp
▶ Regularized regression	50 xp
</> Regularization I: Lasso	100 xp
</> Regularization II: Ridge	100 xp

---

**HIDE CHAPTER DETAILS**