Introduction to Regression with statsmodels in Python

1 Simple Linear Regression Modeling

100%

You'll learn the basics of this popular statistical model, what regression is, and how linear and logistic regressions differ. You'll then learn how to fit simple linear regression models with numeric and categorical explanatory variables, and how to describe the relationship between the response and explanatory variables using model coefficients.

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2 Predictions and model objects

100%

In this chapter, you'll discover how to use linear regression models to make predictions on Taiwanese house prices and Facebook advert clicks. You'll also grow your regression skills as you get hands-on with model objects, understand the concept of "regression to the mean", and learn how to transform variables in a dataset.

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3 Assessing model fit

100%

In this chapter, you'll learn how to ask questions of your model to assess fit. You'll learn how to quantify how well a linear regression model fits, diagnose model problems using visualizations, and understand each observation's leverage and influence to create the model.

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Data Structures and Algorithms in Python

1 Work with Linked Lists and Stacks and Understand Big O notation

100%

You'll begin by learning what algorithms and data structures are. You will discover two data structures: linked lists and stacks. You will then learn how to calculate the complexity of an algorithm by using Big O Notation.

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2 Queues, Hash Tables, Trees, Graphs, and Recursion

100%

This second chapter will teach you the basics of queues, hash tables, trees, and graphs data structures. You will also discover what recursion is.

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3 Searching algorithms

100%

This chapter will focus on searching algorithms, like linear search, binary search, depth first search, and breadth first search. You will also study binary search trees and how to search within them.

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