

INTERACTIVE COURSE

Introduction to Regression with statsmodels in Python

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Intermediate 4 hours 14 videos 53 Exercises 44,758 participants 4150 XP

Description

Linear regression and logistic regression are two of the most widely used statistical models. They act like master keys, unlocking the secrets hidden in your data. In this course, you'll gain the skills you need to fit simple linear and logistic regressions. Through hands-on exercises, you'll explore the relationships between variables in real-world datasets, including motor insurance claims,...

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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

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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

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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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4 Simple Logistic Regression Modeling

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PREREQUISITES

Introduction to Data

Visualization with Seaborn

Introduction to Statistics in Python

PART OF THESE TRACKS

Associate Data Scientist

Statistics Fundamentals



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Senior Content Developer at

Hi Kenny! I'm your guide to Datacamp. Looking for something to learn, or have a question? I'm here to help!

