Chapter 12
Polynomial Regression Models

A model is said to be linear when it is linear in parameters. So the model

$$y = \beta_0 + \beta_1 x + \beta_2 x^2 + \varepsilon$$

and

$$y = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + \beta_{11} x_1^2 + \beta_{22} x_2^2 + \beta_{12} x_1 x_2 + \varepsilon$$

are also the linear model. In fact, they are the second-order polynomials in one and two variables, respectively.

The polynomial models can be used in those situations where the relationship between study and explanatory variables is curvilinear. Sometimes a nonlinear relationship in a small range of explanatory variable can also be modelled by polynomials.

Polynomial models in one variable

The kth order polynomial model in one variable is given by

$$y = \beta_0 + \beta_1 x + \beta_2 x^2 + ... + \beta_k x^k + \varepsilon.$$

If $x_j = x^j$, $j = 1, 2, ..., k$, then the model is multiple linear regressions model in k explanatory variables $x_1, x_2, ..., x_k$. So the linear regression model $y = X\beta + \varepsilon$ includes the polynomial regression model. Thus the techniques for fitting linear regression model can be used for fitting the polynomial regression model.

For example:

$$y = \beta_0 + \beta_1 x + \beta_2 x^2 + \varepsilon$$

or

$$E(y) = \beta_0 + \beta_1 x + \beta_2 x^2$$

is a polynomial regression model in one variable and is called a **second-order model** or **quadratic model**. The coefficients β_1 and β_2 are called the **linear effect parameter** and **quadratic effect parameter**, respectively.

Chapter 12 Polynomial Regression Models Iitk

Katrin Zwirglmaier

Chapter 12 Polynomial Regression Models Iitk:
  Mathematical Reviews ,1991

This book delves into Chapter 12 Polynomial Regression Models Iitk. Chapter 12 Polynomial Regression Models Iitk is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Chapter 12 Polynomial Regression Models Iitk, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

    ○ Chapter 1: Introduction to Chapter 12 Polynomial Regression Models Iitk
    ○ Chapter 2: Essential Elements of Chapter 12 Polynomial Regression Models Iitk
    ○ Chapter 3: Chapter 12 Polynomial Regression Models Iitk in Everyday Life
    ○ Chapter 4: Chapter 12 Polynomial Regression Models Iitk in Specific Contexts
    ○ Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Chapter 12 Polynomial Regression Models Iitk. The first chapter will explore what Chapter 12 Polynomial Regression Models Iitk is, why Chapter 12 Polynomial Regression Models Iitk is vital, and how to effectively learn about Chapter 12 Polynomial Regression Models Iitk.
3. In chapter 2, this book will delve into the foundational concepts of Chapter 12 Polynomial Regression Models Iitk. The second chapter will elucidate the essential principles that need to be understood to grasp Chapter 12 Polynomial Regression Models Iitk in its entirety.
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5. In chapter 4, the author will scrutinize the relevance of Chapter 12 Polynomial Regression Models Iitk in specific contexts. The fourth chapter will explore how Chapter 12 Polynomial Regression Models Iitk is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Chapter 12 Polynomial Regression Models Iitk. This chapter will summarize the key points that have been discussed throughout the book.
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