

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 k^{th} order polynomial model in one variable is given by

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

If $x_j = x^j$, $j = 1, 2, \dots, k$, then the model is multiple linear regressions model in k explanatory variables x_1, x_2, \dots, 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.

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Robert R. Redfield



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Mathematical Reviews ,1991

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Table of Contents Chapter 12 Polynomial Regression Models Iitk

1. Understanding the eBook Chapter 12 Polynomial Regression Models Iitk
 - The Rise of Digital Reading Chapter 12 Polynomial Regression Models Iitk
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 12 Polynomial Regression Models Iitk
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 12 Polynomial Regression Models Iitk
 - User-Friendly Interface

4. Exploring eBook Recommendations from Chapter 12 Polynomial Regression Models Iitk
 - Personalized Recommendations
 - Chapter 12 Polynomial Regression Models Iitk User Reviews and Ratings
 - Chapter 12 Polynomial Regression Models Iitk and Bestseller Lists
5. Accessing Chapter 12 Polynomial Regression Models Iitk Free and Paid eBooks
 - Chapter 12 Polynomial Regression Models Iitk Public Domain eBooks
 - Chapter 12 Polynomial Regression Models Iitk eBook Subscription Services
 - Chapter 12 Polynomial Regression Models Iitk Budget-Friendly Options
6. Navigating Chapter 12 Polynomial Regression Models Iitk eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 12 Polynomial Regression Models Iitk Compatibility with Devices
 - Chapter 12 Polynomial Regression Models Iitk Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 12 Polynomial Regression Models Iitk
 - Highlighting and Note-Taking Chapter 12 Polynomial Regression Models Iitk
 - Interactive Elements Chapter 12 Polynomial Regression Models Iitk
8. Staying Engaged with Chapter 12 Polynomial Regression Models Iitk
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 12 Polynomial Regression Models Iitk
9. Balancing eBooks and Physical Books Chapter 12 Polynomial Regression Models Iitk
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 12 Polynomial Regression Models Iitk
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 12 Polynomial Regression Models Iitk
 - Setting Reading Goals Chapter 12 Polynomial Regression Models Iitk
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Chapter 12 Polynomial Regression Models Iitk
 - Fact-Checking eBook Content of Chapter 12 Polynomial Regression Models Iitk
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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