

Explanatory Modeling

Task 1: Covariate Selection

Goal: Determine what features of a house are most relevant in determining its expected sale price

Build Regression Model, Provide Plot & Analysis

Steps: 1. Exploration: Check if the Response is Normally distributed, etc.
2. Pre-processing
3. 选model : Do F-test & Do BIC Stepwise
4. Diagnosis

作业要求必写项 :

Finding of selected model and model choice (details !!!)
Test all assumptions of selected model
Justify model: If assumption not meet, then transform data
Outliers and their affects to the analysis

Task 2: Test Model using Morty.txt

Goal: Help Morty figure out the sell price of his house (given response = 143,000)

Steps: 1. Confident Interval for the response variable find upper bound
2. Justify reasoning for 1
3. Find 3 most significant covariate for the selected model by the means to **increase** response value
4. Explain reasoning for 3

作业要求必写项 :

CI & Reasoning
Three Changes & Reasoning

Predictive Modeling

Task 3:

作业要求必写项:

Find prediction model
Justify model
Justify variable & turning parameters