Tutorial 9

Machine Learning and Big Data for Economics and Finance

This week's tutorial will only consist of practical activities using R.

List of activities

- I. Finish last week's activities from the textbook Section 10.4 Lab 1: Principal Components Analysis.
- II. Complete the activity from the textbook Section 10.5 Lab 2: Clustering.
- III. Exercise:

Consider the function

$$f(x) = \beta_0 + \beta_1 x + \beta_2 (x - \xi)_+^3$$

- 1. Show that there exists two polynomials f_1 and f_2 such that

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• $f_1(\xi) = f_2(\xi)$.

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2. Is f'' differentiable?

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