A Simplified Analytical Model Toward Big Data Analysis using Ridge Regression Method

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Authors:
Afreen Ali, Sarwesh Site

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Abstract

Ridge Regression is a essential method in linear regression used to analyze multiple regression data which have multicollinearity. For solving highly related multicollinearity problems, Ridge Regression is a better modeling technique than ordinary least square method. The analytical data in modern technology is becoming extremely large in size and the term which describes this large volume of data is “Big Data”, and ordinary tools are insufficient to analyzes big data. In this paper, we are presenting an approach toward big data analysis through ridge regression method. Our simulation result represents a mapping model of Gaussian data from big data in sufficient scale. This model presents the new gateway for big data for statistical and mathematical analysis.

References


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Index Terms

Computer Science
Information Sciences

Keywords

Big Data, MapReduce, Statistics, Regression Model, Gaussian Data