

An analysis of schools' effects on students' performance on math tests

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Abstract

This study is aimed to study factors that affect performance on math tests for school students. To study the questions of interest, the study applied bayes models to investigate the effects on performance on math tests. It was found the random effects of schools are more important affecting the performances, so it suggests it is more important to give poorly math tests performing schools more funding to help them improve their education level rather than give teachers more training or invidual students more attention.

Keywords: Math performance; Bayes Model; School random effects;

1 Introduction

This study is aimed to study factors that affect performance on math tests for school students. Lots of former study already shows that the performance on math tests for school students could be affected by lots of factors including Social Class, the grade of student, schools, family income, parents' eductions and so on. It is interested to investigate what are the most important influences on student performance such as performance on the math test. For example, it is meaningful to find out whether identifying poorly performing schools would be more important than find out individual class rooms which perform poorly or whether it is more important to directly found out students who are weak. Because based on different results, different plans could be made to improve the performances, for examples, if finding out weak students is more important, then we can give them extra attention in classes but if individual class rooms are more important, then we can give teachers related with the classes more training, at last, if some schools are turned out to be more important, we can give the schools more funding to help them improve their education performance.

2 Data

The data source comes from ...

3 Model

The model used in this study is ...

- 4 Results
- 5 Discussion
- 6 References
- 7 Appendix R codes