Predicting Students' Academic Performances – A Learning Analytics Approach using Multiple Linear Regression

Abstract

Learning Analytics is an area of Information Systems research that integrates data analytics and data mining techniques with the aim of enhancing knowledge management and learning delivery in education management. The current research proposes a framework to administer prediction of Students Academic Performance using Learning Analytics techniques. The research illustrates how this model is used effectively on secondary data collected from the Department of Computer Science, University of Jos, Nigeria. Multiple Linear Regression was used with the aid of the Statistical Package for Social Sciences (SPSS) analysis tool. Statistical Hypothesis testing was then used to validate the model with a 5% level of significance.

References

propagation and counter propagation. In IEEE World Congress on Computational Intelligence, Paris, France, 3398–3402


Index Terms

Computer Science Information Sciences

Keywords

Learning Analytics, Educational Data Mining, Students Academic Performance, Multiple Linear Regression.