

Application of statistical models for prediction of performance of students in school examination

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Abstract

Different statistical and mathematical models have been widely used for prediction indifferent situations including production, population growth, pollution etc. These procedures can also be adequately applied for prediction of students' performance in school final examination based on his performance in the test examination. Further, the overall performance of students in a state can also be predicted based on the state's earlier pass performances.

In this paper different aspects of prediction of performance of students have been examined based on his actual and hypothetical performances in the class X examination. Significantly after passing class X examination, a student decides the stream - science, arts, commerce for his future career. This has been found that these models can be used for prediction with significant efficiency.

Keywords

Normal distribution, Binomial distribution, Poisson distribution, Linear models, Goodness of fit.