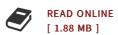# Predictive Modeling for HIV Testing Using Data Mining techniques

By Gidey Hailu Tesfay

LAP Lambert Academic Publishing Apr 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - Testing for HIV is the key entry point to HIV prevention, treatment, and care and support services. To this end, the objective of this study is to build a predictive modeling for HIV testing and identify its determinants for adults (age14) in Ethiopia. However, traditional statistical methods are not enough to discover a new hidden pattern from these huge amounts of HIV testing data generated by Ethiopian DHS which are too complex and voluminous. Hence, data mining techniques can greatly benefit to analyze these huge data set collected over time. CRISP-DM methodology was used to predict the model for HIV testing. Decision trees (random tree and J48), artificial neural network and logistic regression of predictive models were able to predict whether an individual was being tested or not for HIV given that the selected attributes as an input with an accuracy of 96%, 79%, 78% and 74% respectively. This book, therefore, would be helpful for both health programs and especially for researchers can contribute on how the application of data mining was helpful on predicting...

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