MODEL PREDICTING POSTGRADUATE STUDENTS’ PERFORMANCE USING DATA MINING TECHNIQUES
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INTRODUCTION
The academic performance of students is a key factor in making institutions stand out and it also determines how students enroll into the school. In order to give quality education which leads to good performance from students, the tutors need to know the academic ability of their students. Hence, educational managers can make strategic decision to improve students’ performance.

OBJECTIVES
• Determine the set of attributes contributing towards postgraduate students’ academic performance
• Develop a model using the set of attributes
• Generate rules from the model for strategic decision making by educational managers.

MATERIALS USED
1102 records of Computer Science Postgraduate masters students’ data over a period of 5 years was collected from the Postgraduate ICT unit and Computer Science records office of the University of Ibadan. Waikato Environment for Knowledge Analysis (WEKA) open source ML software was used for analysis. The dataset was later reduced to 183 records after the dataset was pre-processed before it was fed into WEKA.

METHODOLOGY
• Model Development
  • Attribute Selection
  • Data Pre-processing
  • Data Transformation
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RESULTS
Attributes has ranked by evaluators
Tree generated by the model from which rules were inferred

CONCLUSION
This research concludes that previous undergraduate grades, type of undergraduate school, age on admission, session resumed and O/L physics grade can predict postgraduate students’ academic performance and that RandomTree classifier will produce a better predictive model.