Abstract

In order to succeed in the competitive environment it is essential to be successful in academics. The basic education is from 1st to 10th standard and once 10th standard is complete there are various courses that can be selected by the students such as Science, Commerce, Arts and Diploma. It becomes difficult to identify the suitable stream. The proposed system can be used to solve the problem. The proposed system implements two methods to generate solution. The Aptitude Test predicts the suitable stream depending upon the intellectual capability of the student. Apart from this prediction is done depending on the ssc marks obtained by the student. The combination of these two methods is also implemented to get more accurate results. The proposed system not only predicts the stream but also specifies the colleges for the predicted stream depending upon the location of student and also gives information about vocational courses that the student can pursue after 10th.
1. Ahmad I., Manarvi, I., Ashraf, N. “Predicting university performance in a subject based on 
2. Zhiwu Liu, XiuZhi Zhang. “Prediction and Analysis for Students' Marks Based on Decision 
Tree Algorithm”, Intelligent Networks and Intelligent Systems (ICINIS), 2010 3rd International 
Conference on Digital Object Identifier:10.1109/ICINIS.2010.59. Publication Year: 2010, 
Page(s): 338 – 341
3. Anupama Kumar S, Vijayalakshmi M.N., “Mining of student academic evaluation records 
in higher education”, International Conference on Recent Advances in Computing and Software 
Systems (RACSS), 2012 Digital Object Identifier:10.1109/RACSS.2012.6212699, Publication 
Year: 2012 IEEE , Page(s): 67 – 70
 improvement of graduate students using classification”, WOCN, 2012 Digital Object Identifier: 
10.1109/WOCN.2012.6335530 Publication Year: 2012 IEEE, Page(s): 1 – 5
5. Garcia, E.P.I. ; Mora, P.M., “Model Prediction of Academic Performance for First Year 
Students”, Artificial Intelligence (MICAI), 2011 10th Mexican International Conference on Digital 
Object Identifier: 10.1109/MICAI.2011.28 Publication Year: 2011 IEEE , Page(s): 169 – 174
6. Pumpuang, P., Srivihok, A., Praneetpolgrang, “Comparisons of classifier algorithms: 
Bayesian network, C4.5, decision forest and NBTree for Course Registration Planning model of 
Conference on Digital Object Identifier: 10.1109/ICSMC.2008.4811865 Publication Year: 2008 
IEEE, Page(s): 3647 – 3651
7. Qasem A. Al-Radaideh, Ahmad Al Ananbeh, and Emad M. Al-Shawakfa A “Classification 
Model For Predicting The Suitable Study Track For School Students”. IJRRAS 8 (2) August 
2011
8. Sunita Beniwal, jitender Arora “Classification and Feature Selection Techniques in Data 
Mining”, IJERT AUGUST 2012
9. Heena Sharma, Navdeep Kaur Kaler “Data Mining with Improved and Efficient 
Mechanism in Clustering Analysis and Decision Tree as a Hybrid Approach” (IJITEE) ISSN: 
2278-3075, Volume-2, Issue-5, April 2013
10. Vaibhav P. Vasani, Rajendra D. Gawali “Classification and performance evaluation 
11. Mr. Shridhar Kamble, Mr. Aaditya Desai “Evaluation and Performance Analysis of 
Machine Learning Algorithms”, IJESRT ISSN: 2277-9655, May, 2014
“EXTRACTING USEFUL RULES THROUGH IMPROVED DECISION TREE INDUCTION 
USING INFORMATION ENTROPY”, International Journal of Information Sciences and 
Techniques (IJIST) Vol.3, No.1, January 2013
Student's Performance Using Classification Method “World Journal of Computer Application and 
14. Dorina Kabakchieva, “Predicting Student Performance by Using Data Mining Methods 
for Classification”, CYBERNETICS AND INFORMATION TECHNOLOGIES • Volume 13, No 1 , 
ISSN: 1311-9702; Online ISSN: 1314-4081
15. Ajay Kumar Pal , Saurabh Pal , “Classification Model of Prediction for Placement of 
Students”, I.J.Modern Education and Computer Science, 2013, 11, 49-56 Published Online 


18. M.I. López, J.M Luna, C. Romero, S. Ventura, “Classification via clustering for predicting final marks based on student participation in forums”


**Index Terms**

Computer Science  
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**Keywords**

Data Mining, C4.5, NBTree, ssc, ssc-marks, Precision, Recall, fMeasure