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Computer-Assisted Valuation of Descriptive Answers Using Weka with RandomForest Classification



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1 Introduction

We are living in the century where Internet and computers are one of the basic requirements of the education system. Most of the exams like CAT, GATE and GMAT are performed online only, whereas exams such as AFCAT, UGC NET, etc. are performed using OMR techniques which are evaluated using digital valuation. But today also most of the university exams are illustrative in nature. They require human valuation which consumes a big amount of time as well as efforts. But many times it happens that marks vary from student to student due to lack of attention, concentration and mood swings of evaluator which further deals with revaluation of copies and results in unnecessary expenditure by students. It also affects them economically and also harms the reputation of university. There are many systems that are already implemented regarding auto-valuation of illustrative answers which uses the technologies like natural language processing, artificial intelligence, Java applications, etc. but they also need extra expenditure for developing such systems which indirectly effects the economy.

Here, a system is proposed which will help the evaluator in correct valuation of copies and which did not need any special training or any special tools. It can be developed using free tools available so that any institute or organization can easily use it and can perform an effective auto-valuation of illustrative answers.

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