

AUTOMATED ESSAY GRADING USING LINEAR REGRESSION

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Automated essay grading is used to evaluate and grade the essays automatically by machine learning rather than grading it manually in the test assessments. The basic idea is to search for features which can model the attributes like language fluency, vocabulary, structure, organization, content etc., Natural Language Processing (NLP) technique is used to extract several features from the essays. A linear regression model with polynomial basis function has been built in this project to predict the score of a given essay. This automated essay grading system also analyses how the essays are scored to get a better understanding about the proposed approach. For instance, currently, evaluation of essay writing section in exams like GRE, GMAT, and TOEFL is done manually. And, so automating such a system may prove to be highly useful as voluminous records are being currently evaluated that consumes large amount of time and efforts.

