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Abstract – Automatic evaluation of handwriting answers has been a difficult problem for education system for many years. To speeding up the evaluation remains as the major problem for enhancing the throughput of instructors. This paper shows an easy method for automatically evaluating the short-handwritten answers from the images. Our main goal is to evaluate a student's handwritten answer by assigning an evaluation score that is comparable to the human giving scores. Although many essay evaluation systems are available, short answer grading is still a tough problem. In the proposed system, Optical Character Recognition tools are used to extract the keyword printed texts in keyword answer image and Google Vision API tools are used to extract the handwritten texts in student handwritten answer images. In the proposed model evaluates scores based on cosine similarity function. Each sentence in the evaluated answer paper carries their respective mark. The developed model can be used to evaluate the marks of the unscored short answers. Our System is divided into three modules. The first and second one is extracting the data from the scanned printed text and handwritten answer images and organizing it in the proper manner and the second is applying NLTK and cosine similarity function from the above step and giving marks in screen.

Keywords –Automated Evaluation, pytesseract, Vision API, NLTK, Cosine Similarity.

I.INTRODUCTION

The analysis of text answers may be a difficult method that needs nice effort from the evaluators, particularly once the amount of answers to judge is

high. Developing Associate in Nursing automatic answer script analysis system is required as a result of human analysis wants concentration and may be biased, whereas Associate in Nursing automatic answer analysis system are effective while not these limitations. relating to text answer analysis, sentence similarity measures are wide accustomed compare student written answers with reference texts. during this paper, we tend to propose an automatic answer analysis system that uses our planned cosine-based sentence similarity measures to judge the answers. circular function measures have verified to be effective in comparison between free text student answers and reference texts.

Handwritten Text Recognition and Evaluating the solution sheet of short answers and comparison with Key word to seek out the result with share of Matches may be a planned technology that's a lot of required during this world as of these days. Before correct implementation of this technology, we've relied on writing texts with our own hands and evaluating manually which may end in errors. It's troublesome for employees to correct an equivalent set of answer sheets manually. manual labour is needed so as to take care of correct organization of the information. Modern-day technology is property individuals store the information over machines, wherever the storage, organization and accessing of information is

comparatively easier. Adopting the utilization of written Text Recognition package, it's easier to judge the hand written answer sheets. what is more, it provides additional security to the information. The aim of our project is to acknowledge the handwriting and value the short answers and supply the result.

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by V Rowtula · Cited by 1 — Our goal is to evaluate a student's handwritten answer by assigning an evaluation score that is comparable to the human-assigned scores. Existing works in this domain mainly focused on evaluating handwritten essays with handcrafted, non-semantic features.

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Title: Handwritten Short Answer Evaluation System - IJSRST Paper ...

Feb 28, 2018 — The developed model can be used to evaluate the marks of the unscored short answers. Keywords : OCR, Short Answer, NLP, Machine ...

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