

SMART EVALUATION

SMART INDIA HACKATHON 2017

Ministry Category: Ministry of HRD

Problem Code: #CBS3

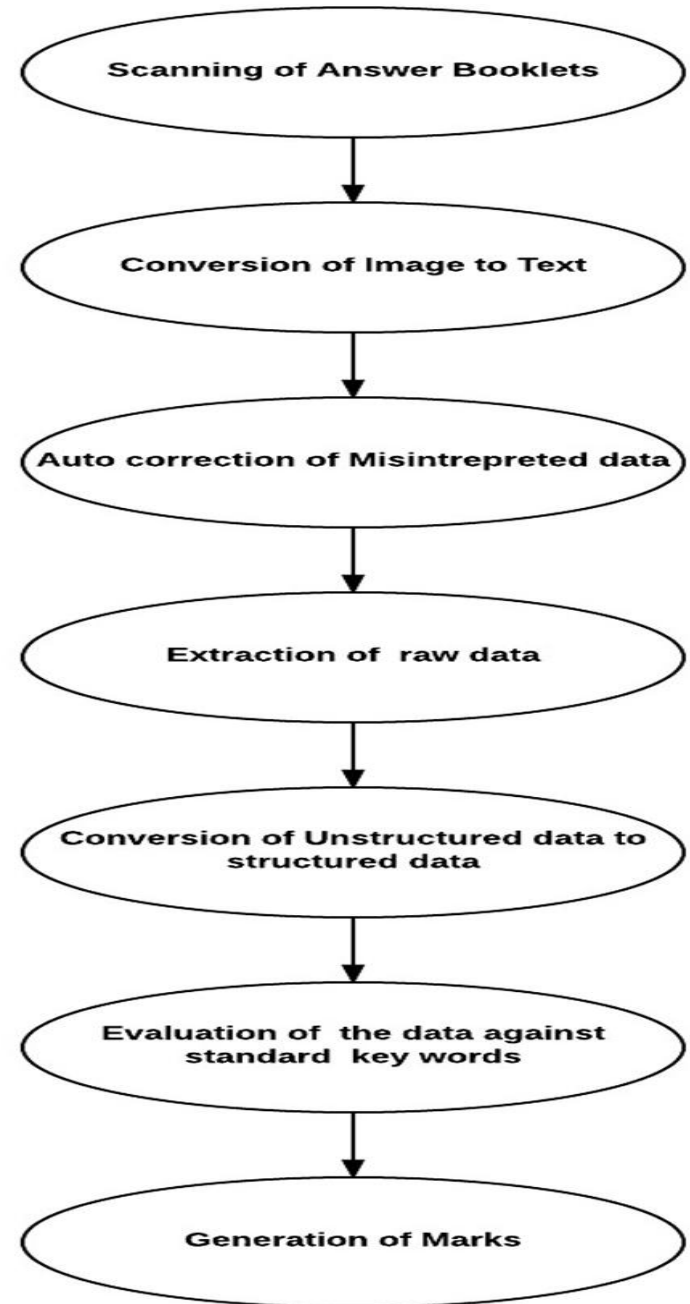
Problem Statement: Evaluation of Answer book

Current AICTE Application No:

Team Leader: Mahesh Arvind S

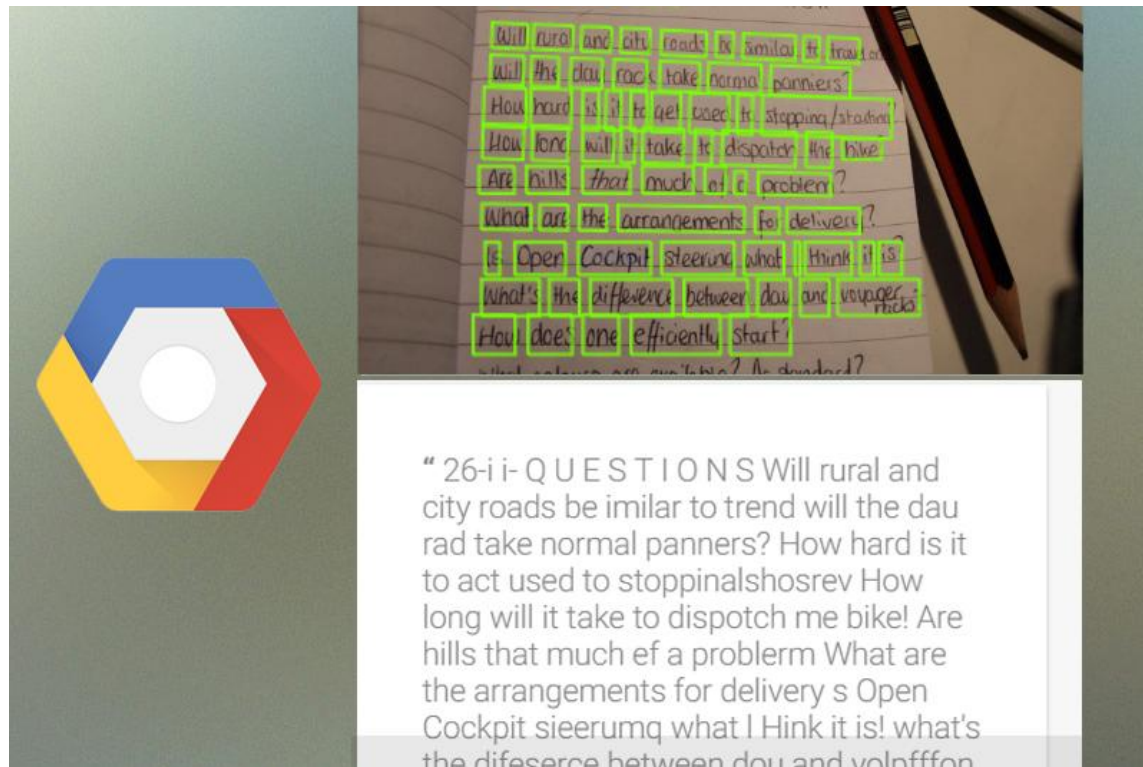
IDEA DESCRIPTION:

Smart evaluation is an Android and Web app which evaluates student's answer scripts and allocates marks based on our algorithm.



Technologies used:

- Optical character recognition (OCR)
- Auto correct of misinterpreted data
- Natural language processing (NLP)
- Text analytics based on semantics ontology
- Machine learning and artificial intelligence for grading



Optical Character Recognition (OCR)

“ 26-i i- Q U E S T I O N S Will rural and city roads be imilar to trend will the dau rad take normal panners? How hard is it to act used to stoppinalshosrev How long will it take to dispotch me bike! Are hills that much ef a problerm What are the arrangements for delivery s Open Cockpit sieerumq what l Hink it is! what's the difeserce between dou and volpffon How does one efficiently start? ”

TRY NATURAL LANGUAGE API

imilar → similar

Possibly confused word: rad

Better word pair

Possibly confused word: panners

Unknown word: stoppinalshosrev

dispotch → dispatch

a bike or the bike

Possibly confused word: ef

problerm → problem

Figure : Autocorrect

For more: http://www.amskee.netne.net/smart_evaluation/ or <http://goo.gl/zlZNdp>

Technology Stack:

PYTHON TEMPLATE RENDER
CSS
JAVASCRIPT
TENSOR FLOW (MACHINE LEARNING)
NATURAL LANGUAGE TOOLKIT
GOOGLE VISION API
PYTHON
MYSQL

USE CASE:

- Login
- Upload answer scripts
- Provide answer scheme (keywords for description)
- Select evaluation filters
- Review evaluation or grade

DEPENDENCIES:

1. Google vision API (OCR)
2. Natural Language Processing (NLP)
3. Tensor Flow (Machine Learning)