

EDUCATIONAL TECHNOLOGY (ED-TECH)

TEAM MEMBERS OF
QUANTUM DEBUGGERS:

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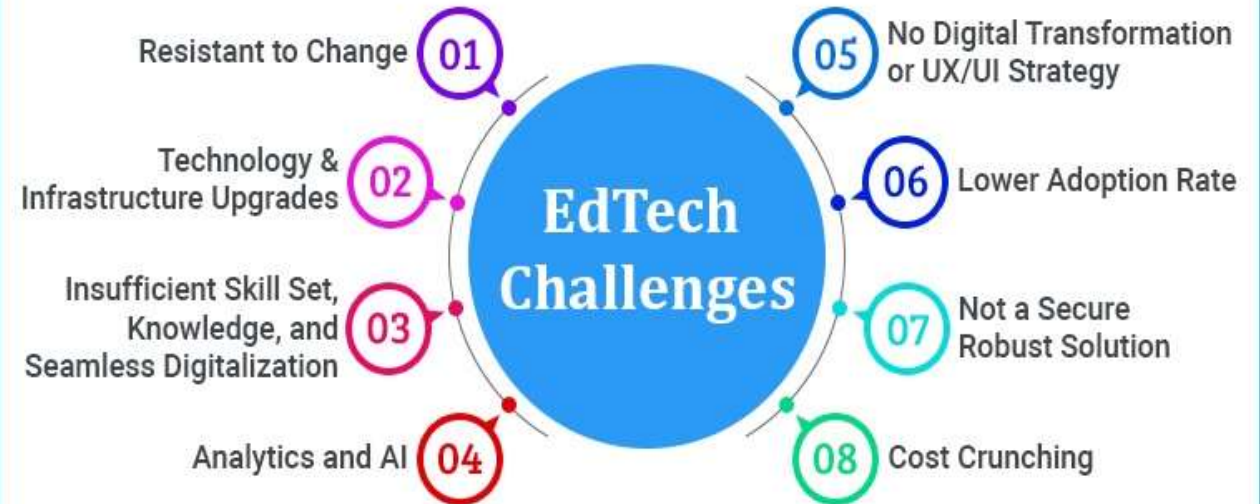
What is Ed-tech?

- EdTech combines two major domains: computer **hardware and software**, as well as **educational theory**, to assist students in learning. While it may appear convoluted, it all comes down to teaching while utilizing technology in any form - whether as a complement in the classroom or as a learning platform in and of itself.
 - **EdTech consists of:--**
 - Platforms for education
 - Management of learning systems
 - Media
 - Knowledge repositories
 - Social media tools
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Benefits & challenges of Ed-tech:

Benefits of AI in EduTech

- 1 Improves efficiency
- 2 Saves time and effort
- 3 Offers personalized learning
- 4 Encourages collaborative learning
- 5 Helps in automatic curriculum development



- Many organizations have struggled with data collecting and acquisition. Education was one of the most affected industries during and after COVID. And, as the number of difficulties grows, the key difficulty that many organizations face is data archiving and management.
- We recognized this issue and decided to develop a system that automates the entire process of data collecting from the marksheet. It can read most GSEB and CBSE marksheets with ease and save them in the database with high accuracy and efficiency using the OCR technique.



WHAT OUR PROJECT IS ABOUT?

Approach of our Project:

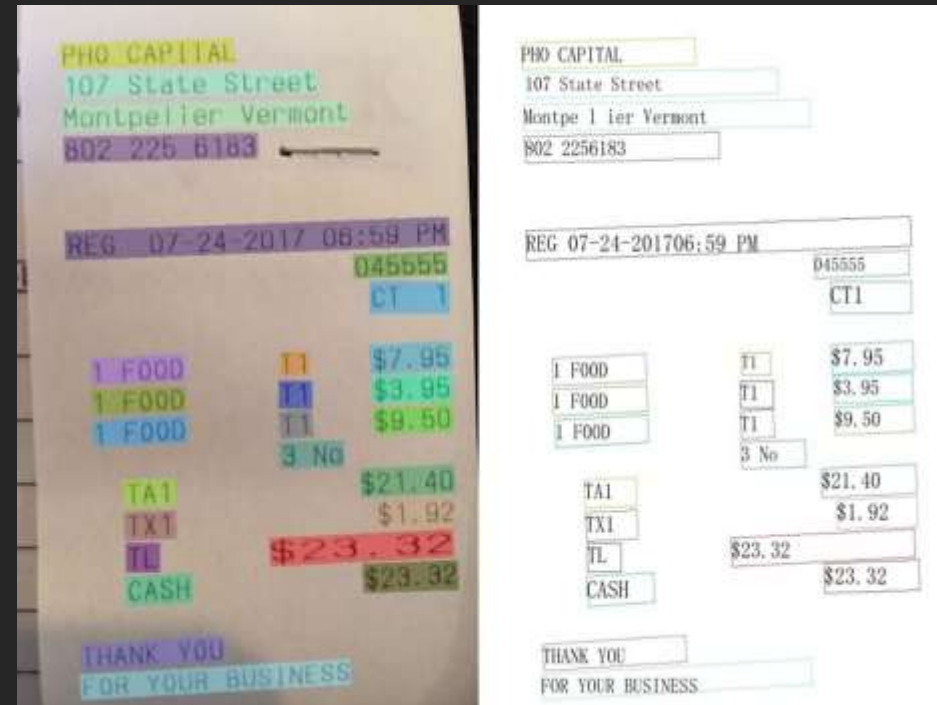
- 1) We will convert the pdf file that the user has uploaded into a picture.
 - 2) That image will be processed using the Easy-OCR module, which will locate the text within the image.
 - 3) The unstructured text will subsequently be added to a list.
 - 4) The processing module will next process and evaluate the unstructured content to convert it to structured text.
 - 5) The module will find the subject and its relevant marks in the structured text and display the result on the webpage.
 - 6) Finally, all of the results will be saved in the database.
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Libraries & Frame-work used for Project:

- Easy-OCR
 - Flask
 - pdf2image
 - Poppler
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What is Easy-OCR(Optical Character Recognition)?

- OCR is an abbreviation for Optical Character Recognition, which is the technology used to turn scanned photos, PDFs, and other documents into editable and searchable text files.
- OCR captures characters and text from a document, converts it to **digital format**, and then converts it into an editable document, such as a word processing file, that can be modified, searched, and shared.



What is flask?

- Flask's framework is more explicit than Django's framework, and it is also easier to learn because it requires less basic code to construct a simple web application. A Web-Application Framework, often known as a Web Framework, is a set of modules and libraries that allow developers to construct apps without having to write low-level code such as protocols, thread management, and so on.
- Flask is built with the WSGI (Web Server Gateway Interface) toolkit and the Jinja2 template engine.

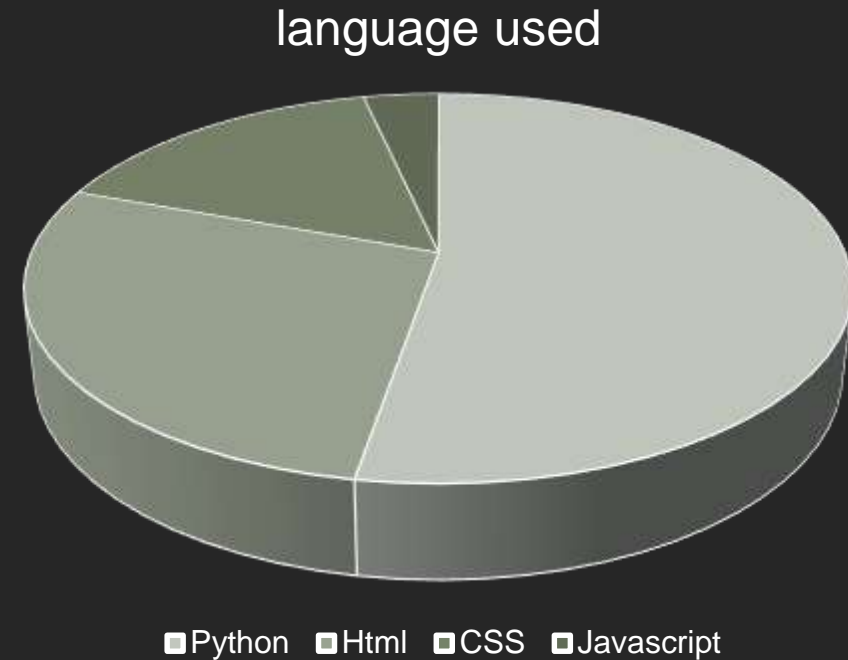


What is Poppler in python?

- Poppler is a free software utility package that allows you to render Portable Document Format (PDF) documents.
 - python-poppler is a Python binding to the poppler-cpp library. It allows to read, render, or modify PDF documents.
 - Freedesktop.org is funding its development.
 - It is widely used on Linux systems[3] and is supported by the free source GNOME and KDE desktop environments' PDF readers.
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The following programming languages were utilized to create our project:

- Python
- Html
- CSS
- Java-script



Our main target:

- Managing result data is a large responsibility for both students and instructors, and our project may assist in storing prior data of results by using pdf of results.
 - As a result, universities and students can save their data on our website.
 - We give a secure and simple solution to store the result output simply by utilizing pdf.
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How to access our project:

- 1) Choose GSEB or CBSE based on your preferences.
 - 2) Upload the grade sheet.
 - 3) Submit the form by clicking the Submit button.
 - 4) You will observe markings produced within a few seconds.
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Our project Output:

has acquired following grade in the Secondary School Certificate Examination.

MONTH & YEAR OF THE EXAM	SEAT NO.	CENTRE NUMBER	SCHOOL INDEX NO.	SER. NO. OF STATEMENT	
MAY-2021	B2062929	6108	61.0214	0428685	
NAME OF THE SUBJECT WITH CODE NO.	SECONDARY LEVEL EVALUATION OUT OF 30	SAFED INFRASTRUCTURE IN INTERNAL ASSESS EVALUATION OUT OF 20	SUBJECT WORK SHEET TOTAL OUT OF 100	MARKS OBTAINED IN WORDS	SUBJECT WISE GRADE
04 ENGLISH FL	68	20	088	EIGHT EIGHT	A2
10 SOCIAL SCIENCE	71	20	091	NINE ONE	A1
11 SCIENCE	64	20	084	EIGHT FOUR	A2
12 MATHEMATICS	63	20	083	EIGHT THREE	A2
13 GUJARATI SL	71	20	091	NINE ONE	A1
17 SANSKRIT SL	65	20	085	EIGHT FIVE	A2
Total		100	522		
GRAND TOTAL OF MARKS OBTAINED FIVE HUNDRED TWENTY TWO					
PERFORMANCE IN THE SUBJECTS OF SCHOOL BASED EXAMINATION					
NAME OF THE SUBJECT WITH CODE NO.					GRADE
24 COMPUTER EDU. -T					A1
51 COMPUTER EDU. -P					A1
GRADE		PERCENTILE RANK		S.I.D. No.	
A2		96.17		218-61-15025	
RESULT QUALIFIED FOR SECONDARY SCHOOL CERTIFICATE					
IMPORTANT : Any change in this document except by the Issuing Authority will result in cancellation of the document and shall also invoke imposition of appropriate legal action.					
(i) XO indicates 'Exemption' (> 33%)		(ii) AO indicates 'Absent'		06-29/06/2021	
				EXAMINATION SECRETARY	

To qualify for a subject a candidate has to secure minimum 28 marks out of 80 in secondary level evaluation and 7 marks out of 20 in school internal evaluation.

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MarkSheet		
Sr No	Subject	Marks
1	ENGLISH	88
2	SOCIAL SCIENCE	91
3	SCIENCE AND TECHNOLOGY	84
4	MATHEMATICS	83
5	GUJARATI	91
6	SANSKRIT	85
7	TOTAL	522
8	TOTAL MAXIMUM MARKS	600

Thank you
