A Mini Project Report on

**“IMPLEMENTATION AND CONVERSION OF MULTI-MEDIA FILES THROUGH COMPUTER VISION USING UI/UX”**

Submitted in partial fulfillment of the requirement for the Sixth Semester

**Bachelor of Engineering**

In

**Computer Science and Engineering**

**Visvesvaraya Technological University, Belgaum**



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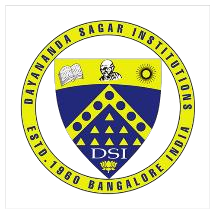
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##### Under the guidance of

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**Department of Computer Science and Engineering,**

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Minor Project- Report

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Course Faculty: Dr. Monika P Course Name & code: Mini Project 18CS6DCMIP

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| TITLE OF THE PROJECT | IMPLEMENTATION AND CONVERSION OF MULTI-MEDIA FILES THROUGH COMPUTER VISION USING UI/UX | | | |
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| INDIVIDUAL  CONTRIBUTION | Audio to text function  Presentation | Image to text function  Report | PDF Merger function  Presentation | Text to speech function  Report |
| GUIDE | Dr. Monika P | | | |
|  |  | | | |
| PROJECT ABSTRACT : | This project is based on implementation and conversion of multi-media applications through computer vision using ui/ux. It contains the below functions:   1. PDF Merger 2. Image To Text 3. Audio To Text   4. Text To Speech  Conversion of multimedia files from one form to another is useful in order to effectively manipulate the data in the files. The general aim of this project is to implement the various functions above which through a graphical user interface (GUI) making it more useful and user-friendly. Graphical User Interface or GUI is an interface that allows users to interact with different electronic devices using icons, buttons and other visual indicators. The project makes effective use of python libraries to perform the functions. | | | |
| PLATFORM USED  (H/W & S/w tools used | Pycharm IDE, Anaconda IDE, pytesseract tool,  Python | | | |
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| Introduction | The project is implemented using python as the programming language. The GUI is developed using tkinter framework. Tkinter is a cross-platform, therefore the same code can be used on windows, macOS and linux.  The functions implemented in this project perform the following tasks:   1. PDF Merger- this function combines two PDF documents into one. 2. Image To Text- this functions converts the image with a text into a simple text document. 3. Audio To Text – it is used to convert a audio file to text file. 4. Text To Speech-It is a function that lets the computer or phone read the text aloud. It basically converts a text file to audio file. | | | |
| List of papers/URLS referred | <https://data-flair.training/blogs/machine-learning-project-ideas/> | | | |
|  |  | | | |
| DesiGn  {SYSTEM DESIGN DIAGRAM} | USER  GRAPHICAL INTERFACE  DISPLAY SERVER  KERNEL  HARDWARE | | | |
| Project Source Code Link (Github/ Google DRive) | <https://github.com/karthikwadeyar45/IMPLEMENTATION-AND-CONVERSION-OF-MULTI-MEDIA-FILES-THROUGH-COMPUTER-VISION-USING-UI-UX> | | | |
|  |  | | | |
| Conclusion /FUTURE ENHANCEMENT | In conclusion, this project is developed based on real-time examples and a GUI or graphical user interface which enables the user to interact and use the functions. This project has a very vast scope in the future. This project can be implemented further by adding more functions and features as and when required. We can include functions such as converting an image in jpg format to GIF format, function to represent data or important data in the form of digital representation or graphical representation. | | | |
|  |  | | | |
| Ui sCreenshots of SAMPLE RESULTS | C:\Users\Dell\Downloads\c4.JPG  C:\Users\Dell\Downloads\c2.JPGC:\Users\Dell\Downloads\c3.JPG  C:\Users\Dell\Downloads\c1.JPGC:\Users\Dell\Downloads\c5.JPG | | | |
| REFERENCES | <https://www.javatpoint.com/how-to-convert-text-to-speech-in-python>  <https://realpython.com/python-gui-tkinter/> | | | |