

# Text to Speech Conversion using Python

Sonali Wangikar<sup>1</sup>, Anjali Bobade<sup>2</sup>, Namrata Pawar<sup>3</sup>, Akshay Dhanmani<sup>4</sup>

Professor, Department of E&TC, Dr. Daulatrao Aher College of Engineering, Karad, India<sup>1</sup>

Students, Department of E&TC, Dr. Daulatrao Aher College of Engineering, Karad, India<sup>2,3,4</sup>

**Abstract:** *Text to speech conversion means it is the application that converts text into audio file by extracting and processing that text. The PDF file is converted into audio presentations of text so we have developed a text to audio in the form of application converts input text into audio and then it can be saved as mp3 file. This application is so useful for people who have visual disabilities and this text to audio is easier for them.*

**Keywords:** Toothpaste, Trikatu, Excudability, Foamily, Clove oil

## I. INTRODUCTION

Text to speech conversion it is a conversion of text in the form of PDF file merge JPG PNG Extra file is converted into audio file text to speech it is a technology which can help to people who have learning disabilities and you have some problems to read out the large text file this text to speech converter usually generate audio data as the output of system text to speech converter it is a technology which is firstly scan the English text that are in the PDF for image and exchange it into voice was found this system helps to people at various places for example in educational applications transfer application or any other places that takes to scan from newspaper books image of any text captured by mobile audio is finally created with the converter by the information getting from various place.

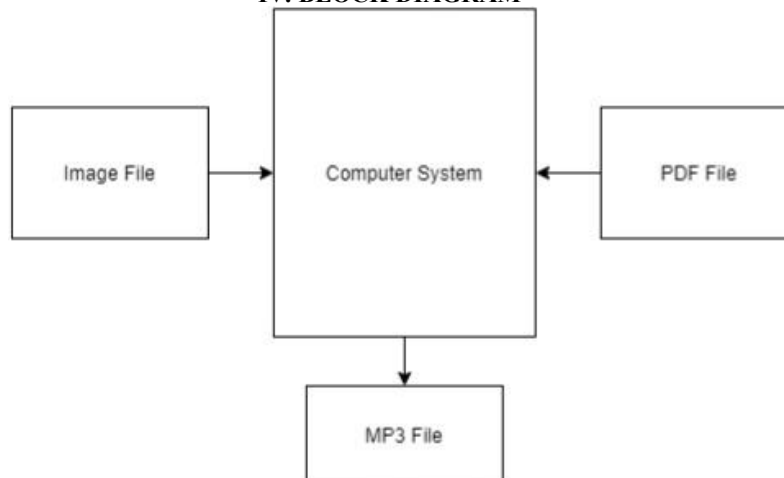
## II. OBJECTIVE

People with learning disabilities significantly boost of the reading ability easy wait world improve the literacy problem it help to focus on their studies to students

## III. MOTIVATION

In this system our main goal is to help people with virtual learning disabilities and introduce people on new technology for their day-to-day life it includes collecting the data in the form of PDF text or image text and then convert into a simple audio from it helps to reduce time of reading it also helps to students the focusing on the content and compass compassionate about that result this system is raising the components of the students does we develop the system to introduce a new learning method to people in their life

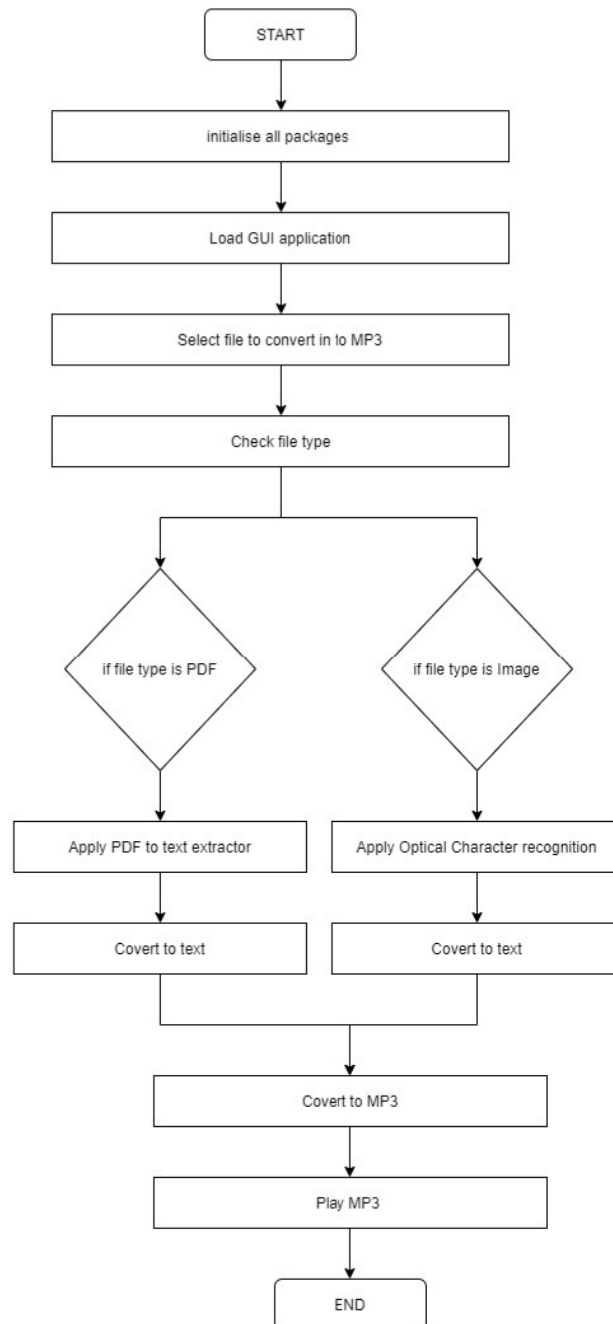
## IV. BLOCK DIAGRAM



**4.1 Block Diagram Description**

This is a block diagram of Text to speech converter using python. There are different APIs available to translate text to speech in Python programming language. One of the technologies to convert Google Text to Speech is API which is commonly known as the gTTS API. This gTTS API is a handy tool which converts the given text into an audio file which can be saved as a .mp3 file. In the above block diagram, we give image files or pdf files to the computer system as input. Then the computer system converts them into audio files using some python programming and python libraries. Such as Pypdf, pdfminer, gTTS, openCV, web-browser, PyQt5.

**V. FLOW CHART**

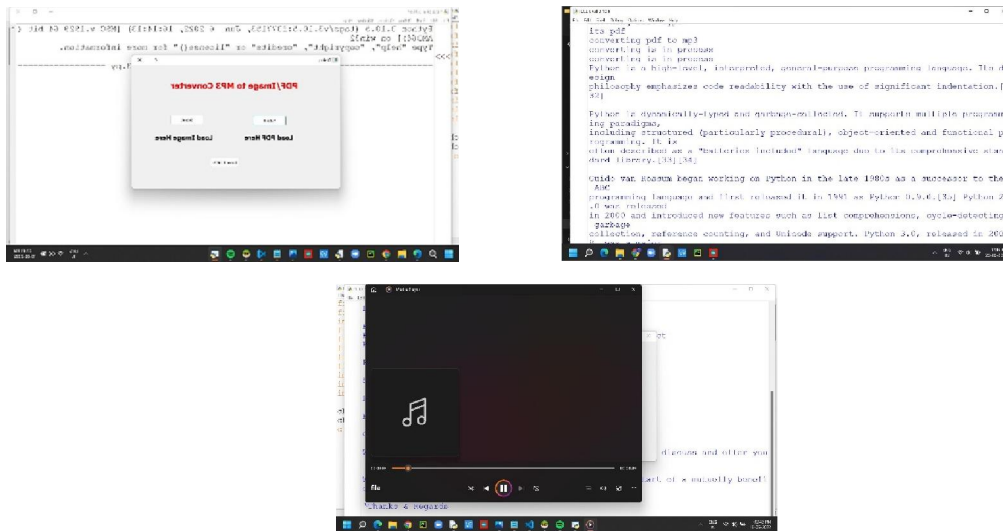


**VI. USED SOFTWARE/PROGRAMMING LANGUAGE**

**6.1 Python Programming Language**

Python programming language is dynamically typed and high level general purpose language it supports various programming paradigm include structure and object oriented and functional programming Python is simple or easy to learn Syntax and readability introduced cost of the maintenance in 2022 python 3.10 version is released it meant to be easy readable language it serves a scripting language for web application library such as pypdf numpy scipy allowed the effective uses of python in scientific computing the Python is commonly used in artificial intelligence(AI) projects on machine learning(ML) project with the help of various libraries and these technologies are spreading across multiple industries and they have equally dominate by python.

**VII. RESULT**



**VIII. CONCLUSION**

Text to speech converter is rapidly growing aspect of computer technology and increasingly played important role in the way we interconnect with the system and interfaces across various platforms to identify various operations and processes involving into text to speech converter we also developed a very simple and easy graphical user interface which allows the user to type his or her text provided in the text fields in application another area of further work is the implementation of text to speech system on other platforms to increase functionality and added advantages in future we plan to make efforts to create engines for localised languages to make Text-to-Speech system more accessible to a wider range

**REFERENCES**

- [1]. Lemmetty, S., 1999. Review of Speech Synthesis Technology. Masters Dissertation, Helsinki University Of Technology.
- [2]. Dutoit, T., 1993. High quality text-to-speech synthesis of The French language. Doctoral dissertation, Faculte Polytechnique de Mons.
- [3]. Suendermann, D., Höge, H., and Black, A., 2010.Challenges in Speech Synthesis. Chen, F., Jokinen, K.,(eds.), Speech Technology, Springer Science + Business Media LLC.
- [4]. Allen, J., Hunnicutt, M. S., Klatt D., 1987. From Text to Speech: The MI Talk system. Cambridge University Press.
- [5]. Rubin, P., Baer, T., and Mermelstein, P., 1981. An Articulatory synthesizer for perceptual research. Journal of the Acoustical Society of America 70: 321–328.
- [6]. Van Santen, J.P.H., Sproat, R. W., Olive, J.P., and Hirschberg, J., 1997. Progress in Speech Synthesis Springer.