TALKING REPORT

Problem Statement:

Health is the major concern of our body. For a good body and a healthy life good treatment and care is required. To take care of our body we require proper knowledge of what all is happening inside our us. To get a knowledge about our body we go to the doctor for our treatment and then they give us a report. A report is a complete record of a patient’s key clinical data and medical history such as demographics, vital signs, medications, treatment plans, problems etc., but not all people are able to read these reports. Those people who are illiterate have a hard time to understand the reports so, they take help from people around them who are educated and can translate the report to them. But in a society of corrupt and fraud people we cannot trust everybody and due to this many people fall in traps and become victims of scams like human organ trafficking etc. So, in order to prevent the people from being exploited we need to find an optimum solution such that they can get a summarized audio report in the language of their preference.

Highlights:

We will be using Pytesseract, GTTS, Translate, Textblob, Computer Vision for the creation of the program. The division of the program is done in the following three parts:

**Part 1:**

**Text Recognition -** Involves the use of **Pytesseract** and **Computer Vision** to detect text in any language from an image.

**Part 2:**

**Text Summarization** - Involves the use of **Spacy** for processing original text for **Scapy NLP Pipeline**, **Textwrap** for defining how small the output summary should be compared with the input and strings library.

**Part 3:**

**Text to Speech Conversion –** Involves the use of **Textblob** library for detecting the language of the summarized text, the **Translate** library is used to translate the detected language into English and to any language according to users choice. The part 3 also contains **Google Text To Speech** for conversion of the translated summary into speech and the output is provided in the audio file.

Result:

The audio file generated as output can be any of the following languages as preferred by the user English, French, German, Chinese, Arabic, Spanish, Russian, Hindi, Japanese, Korean.