

How to run Program

Step 1: You need to download Python 3.7 or Above

Step 2: Download Python Libraries

1. Numpy
2. Math
3. cv2
4. os, sys
5. traceback
6. pyttsx3
7. keras
8. load_model
9. HandDetector
10. ascii_uppercase
11. enchant
12. ImageTk
13. Open Cv

Step 3: Open Program Folder And run Main.py any ide

Step 4: Add path to the program witch is called Data Set Data A_to_Z path in the program

Step 5: Run the Program

System Requirement:

- Computer with Minimum i5 10th Gen Processor
- Camera
- Microphone
- Speaker

Software Requirements:

- Operating System: Windows 8 and Above
- IDE: Visual Studio Code
- Programming Language: Python 3.9 5

- Python libraries: OpenCV, NumPy, Keras, MediaPipes, Tensorflow, Pillow, Speech Recognition, Tkinter

LANGUAGE SPECIFICATION :

- Python : Deep learning frameworks and libraries support Python
- Keras: Version 3.5 – 3.8
- Tensorflow: Version 3.5 – 3.9
- NumPy: Version 1.22.0 – 1.23.5
- OpenCV: 4.7.0
- MediaPipe : Version 0.10.7
- Pillow : Version 9.5.0
- Speech Recognition : 3.10.1
- Tkinter : 8.5