

The predicted handsign is :A



The predicted handsign is :I



The predicted handsign is :H



The predicted handsign is :D



The predicted handsign is :C



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Anaconda Prompt (Anaconda3) - python app.py
127.0.0.1 - - [19/Nov/2022 15:11:01] "POST /predict HTTP/1.1" 200 -
* Detected change in 'M:\software\AI_TRAINING_IBM\IBM DEAF\app.py', reloading
* Detected change in 'M:\software\AI_TRAINING_IBM\IBM DEAF\tmpn075_md4', reloading
* Detected change in 'M:\software\AI_TRAINING_IBM\IBM DEAF\app.py', reloading
* Restarting with watchdog (windowsapi)
2022-11-19 15:12:54.775195: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2022-11-19 15:12:54.775351: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
2022-11-19 15:12:58.771212: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2022-11-19 15:12:58.772089: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cublas64_11.dll'; dlerror: cublas64_11.dll not found
2022-11-19 15:12:58.772868: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cublaslt64_11.dll'; dlerror: cublaslt64_11.dll not found
2022-11-19 15:12:58.773681: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cufft64_10.dll'; dlerror: cufft64_10.dll not found
2022-11-19 15:12:58.774762: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'curand64_10.dll'; dlerror: curand64_10.dll not found
2022-11-19 15:12:58.776894: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cusolver64_11.dll'; dlerror: cusolver64_11.dll not found
2022-11-19 15:12:58.778446: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cusparses64_11.dll'; dlerror: cusparses64_11.dll not found
2022-11-19 15:12:58.781387: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudnn64_8.dll'; dlerror: cudnn64_8.dll not found
2022-11-19 15:12:58.782257: W tensorflow/core/common_runtime/gpu/gpu_device.cc:1934] Cannot dlopen some GPU libraries. Please make sure the missing libraries mentioned above are installed properly if you would like to use GPU. Follow the guide at https://www.tensorflow.org/install/gpu for how to download and setup the required libraries for your platform.
Skipping registering GPU devices...
2022-11-19 15:12:58.785486: I tensorflow/core/platform/cpu_feature_guard.cc:193] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX AVX2
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
* Debugger is active!
* Debugger PIN: 527-144-433
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [19/Nov/2022 15:14:16] "GET / HTTP/1.1" 200 -
current path
current path M:\software\AI_TRAINING_IBM\IBM DEAF
upload folder is M:\software\AI_TRAINING_IBM\IBM DEAF\uploads\26.png
1/1 [=====] - 0s 108ms/step
prediction B
127.0.0.1 - - [19/Nov/2022 15:14:23] "POST /predict HTTP/1.1" 200 -
127.0.0.1 - - [19/Nov/2022 15:14:37] "GET / HTTP/1.1" 200 -
current path
current path M:\software\AI_TRAINING_IBM\IBM DEAF
upload folder is M:\software\AI_TRAINING_IBM\IBM DEAF\uploads\28.png
1/1 [=====] - 0s 21ms/step
prediction B
127.0.0.1 - - [19/Nov/2022 15:14:42] "POST /predict HTTP/1.1" 200 -
current path
current path M:\software\AI_TRAINING_IBM\IBM DEAF
upload folder is M:\software\AI_TRAINING_IBM\IBM DEAF\uploads\2.png
1/1 [=====] - 0s 23ms/step
prediction E
127.0.0.1 - - [19/Nov/2022 15:19:22] "POST /predict HTTP/1.1" 200 -
current path
current path M:\software\AI_TRAINING_IBM\IBM DEAF
upload folder is M:\software\AI_TRAINING_IBM\IBM DEAF\uploads\2.png
1/1 [=====] - 0s 20ms/step
prediction I
127.0.0.1 - - [19/Nov/2022 15:32:10] "POST /predict HTTP/1.1" 200 -
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Real-Time Communication System Powered By AI For Specially Abled

- In our society, we have people with disabilities. The technology is developing day by day but no significant developments are undertaken for the betterment of these people.
- Communications between deaf-mute and a normal person has always been a challenging task. It is very difficult for mute people to convey their message to normal people. Since normal people are not trained on hand sign language.
- In emergency times conveying their message is very difficult. The human hand has remained a popular choice to convey information in situations where other forms like speech cannot be used. Voice Conversion System with Hand Gesture Recognition and translation will be very useful to have a proper conversation between a normal person and an impaired person in any language.
- The project aims to develop a system that converts the sign language into a human hearing voice in the desired language to convey a message to normal people, as well as convert speech into understandable sign language for the deaf and dumb.
- We are making use of a convolution neural network to create a model that is trained on different hand gestures. An app is built which uses this model. This app enables deaf and dumb people to convey their information using signs which get converted to human-understandable language and speech is given as output.

Upload Hand Gesture

Choose...



Result: the predicted handsign text is : B



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Upload Hand Gesture

Choose...



Result: the predicted handsign text is : E



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Upload Hand Gesture

Choose...



Result: the predicted handsign text is : I

