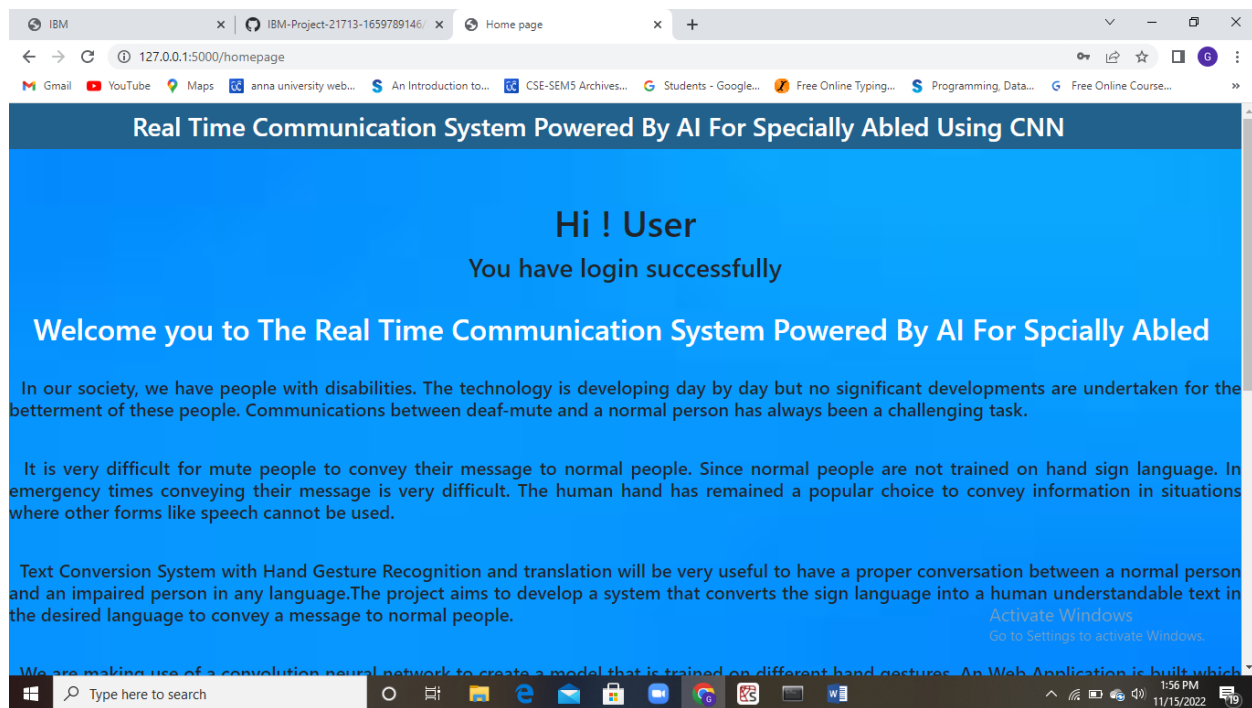
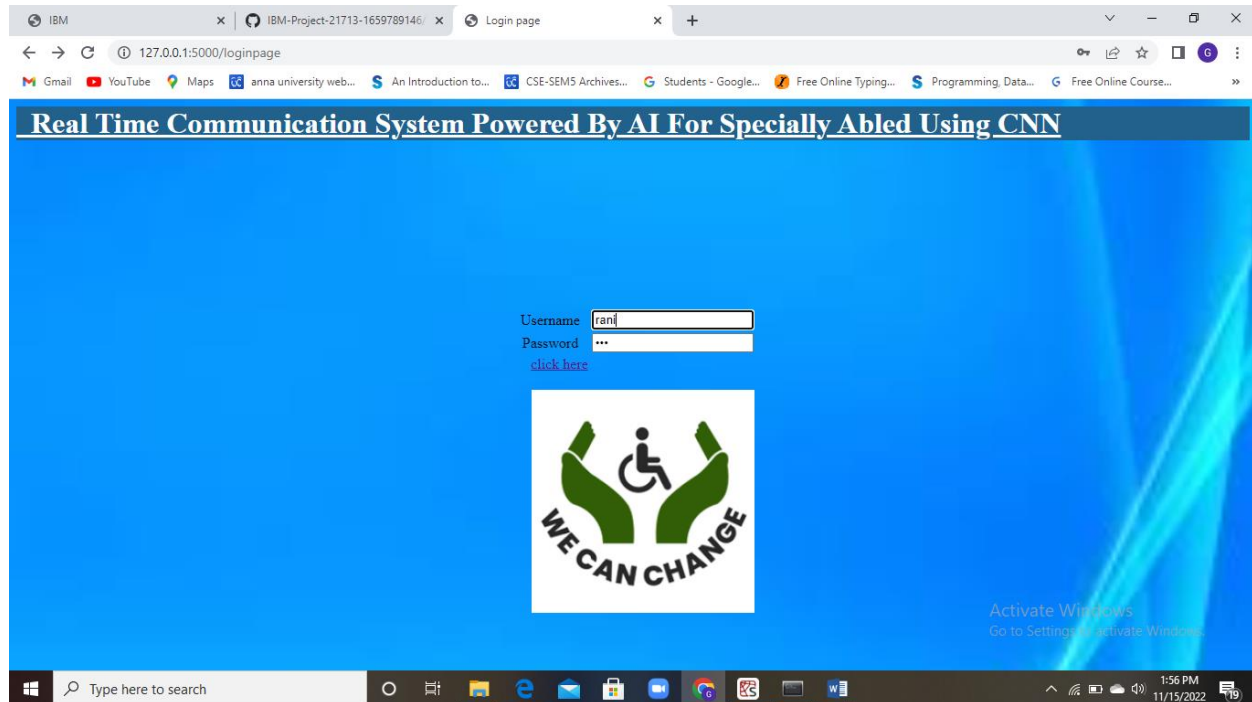


OUTPUT

PROJECT TOPIC: Real-Time Communication System Powered By AI For Specially Abled




IBM x IBM-Project-21713-1659789146 x Home page x +

127.0.0.1:5000/homepage

Gmail YouTube Maps anna university web... An Introduction to... CSE-SEM5 Archives... Students - Google... Free Online Typing... Programming, Data... Free Online Course...

We are making use of a convolution neural network to create a model that is trained on different hand gestures. An Web Application 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 text is given as output.



MY DISABILITY DOES NOT HINDER
MY ABILITY TO BE CONSIDERED EQUAL.

Click the below link to be directed to The Real Time Communication System Powered By AI For Specially Abled

[Click Here](#)

Activate Windows
Go to Settings to activate Windows.

Type here to search

1:57 PM 11/15/2022

IBM x IBM-Project-21713-1659789146 x Real Time Communication System: x +

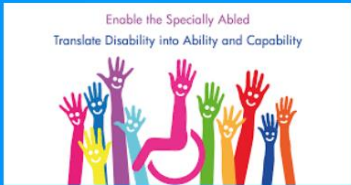
127.0.0.1:5000

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Real Time Communication System Powered By AI For Specially Abled Using CNN

Real Time Communication System Powered By AI For Specially Abled:

Designing and implementing a system using artificial intelligence, Deep Learning algorithms and image processing concepts to take input as hand gestures (or) sign language and It generates recognizable outputs in the form of text. We can convert the sign languages into text. So that the specially abled people will convey the message to normal people.



Enable the Specially Abled
Translate Disability into Ability and Capability

Upload Image Here To Identify the Sign Language

[Choose...](#)

Activate Windows
Go to Settings to activate Windows.

Type here to search

1:57 PM 11/15/2022

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Enable the Specially Abled
Translate Disability into Ability and Capability



Upload Image Here To Identify the Sign Language

Choose...



Predict!

Activate Windows
Go to Settings to activate Windows.

Type here to search

1:58 PM 11/15/2022

IBM x IBM-Project-21713-1659789146 x Real Time Communication System x +

127.0.0.1:5000


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Real Time Communication System Powered By AI For Specially Abled Using CNN

Real Time Communication System Powered By AI For Specially Abled:


Designing and implementing a system using artificial intelligence, Deep Learning algorithms and image processing concepts to take input as hand gestures (or) sign language and It generates recognizable outputs in the form of text. We can convert the sign languages into text. So that the specially abled people will convey the message to normal people.

Enable the Specially Abled
Translate Disability into Ability and Capability



Upload Image Here To Identify the Sign Language

Choose...



Result: The Predicted Alphabet is : A

Activate Windows
Go to Settings to activate Windows.

Type here to search

1:58 PM 11/15/2022

```
Anaconda Prompt (anaconda3) - python app.py

(base) C:\Users\Acer>cd IBM --TRAINING SESSION
(base) C:\Users\Acer\IBM --TRAINING SESSION>cd PROJECT
(base) C:\Users\Acer\IBM --TRAINING SESSION\PROJECT>cd flask
(base) C:\Users\Acer\IBM --TRAINING SESSION\PROJECT\flask>python app.py
2022-11-15 13:26:54.988425: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2022-11-15 13:26:54.938722: 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.
2022-11-15 13:27:36.127827: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found
2022-11-15 13:27:36.186987: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-15 13:27:36.275789: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-HJEFQV5
2022-11-15 13:27:36.291831: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-HJEFQV5
* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with watchdog (windowsapi)
2022-11-15 13:27:46.293313: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2022-11-15 13:27:46.308488: 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.
2022-11-15 13:27:59.862632: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found
2022-11-15 13:27:59.872016: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-15 13:27:59.893603: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-HJEFQV5
2022-11-15 13:27:59.919134: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-HJEFQV5
* Debugger is active!
* Debugger PIN: 878-163-348
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [15/Nov/2022 13:28:19] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 13:28:22] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [15/Nov/2022 13:28:27] "GET /loginpage HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 13:29:10] "GET /homepage HTTP/1.1" 200 -
* Detected change in 'C:\Users\Acer\anaconda3\lib\site-packages\keras\engine\training.py', reloading
1/1 [=====] - 3s 3s/step
127.0.0.1 - - [15/Nov/2022 13:29:32] "POST /predict HTTP/1.1" 200 -
* Restarting with watchdog (windowsapi)
2022-11-15 13:29:37.916035: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2022-11-15 13:29:37.933634: 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.
2022-11-15 13:29:53.378092: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found
2022-11-15 13:29:53.391405: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
```

```
Anaconda Prompt (anaconda3) - python app.py
2022-11-15 13:27:59.862632: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found
2022-11-15 13:27:59.872016: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-15 13:27:59.893603: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-HJEFQV5
2022-11-15 13:27:59.919134: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-HJEFQV5
* Debugger is active!
* Debugger PIN: 878-163-348
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [15/Nov/2022 13:28:19] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 13:28:22] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [15/Nov/2022 13:28:27] "GET /loginpage HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 13:29:10] "GET /homepage HTTP/1.1" 200 -
* Detected change in 'C:\Users\Acer\anaconda3\lib\site-packages\keras\engine\training.py', reloading
1/1 [=====] - 3s 3s/step
127.0.0.1 - - [15/Nov/2022 13:29:32] "POST /predict HTTP/1.1" 200 -
* Restarting with watchdog (windowsapi)
2022-11-15 13:29:37.916035: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2022-11-15 13:29:37.933634: 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.
2022-11-15 13:29:53.378092: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found
2022-11-15 13:29:53.391405: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-15 13:29:53.415067: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-HJEFQV5
2022-11-15 13:29:53.422618: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-HJEFQV5
* Debugger is active!
* Debugger PIN: 878-163-348
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
* Detected change in 'C:\Users\Acer\IBM --TRAINING SESSION\PROJECT\flask\app.py', reloading
* Restarting with watchdog (windowsapi)
2022-11-15 13:46:21.032873: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2022-11-15 13:46:21.044992: 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.
2022-11-15 13:46:33.375037: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found
2022-11-15 13:46:33.388855: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-15 13:46:33.408916: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-HJEFQV5
2022-11-15 13:46:33.420678: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-HJEFQV5
* Debugger is active!
* Debugger PIN: 878-163-348
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [15/Nov/2022 13:56:33] "GET /homepage HTTP/1.1" 200 -
127.0.0.1 - - [15/Nov/2022 13:57:43] "GET / HTTP/1.1" 200 -
1/1 [=====] - 1s 582ms/step
127.0.0.1 - - [15/Nov/2022 13:58:37] "POST /predict HTTP/1.1" 200 -
```

Team ID: PNT2022TMID29964

- Team Size: 5

Team Leader: KRITHIKSHAG

Team member: MONIKAY

Team member: SUBHASRI M

Team member: SEMBARUTHI N

Team member: NIVETHAN