

WarpNet and WarpNet Interface User Manual

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1. Interface Installation


- Create a conda virtual environment
- unzip **WarpNet_ShowCase.zip**
- conda activate YOUR_VIRTUAL_ENV
- conda install python=3.6
- pip3 install -r requirements.txt
- cd WarpNet_ShowCase
- **python app.py** -- to run the program
- Go to a web browser, type in <http://localhost:5000/> to start the program

2. Interface Main Files

- `./ WarpNet_ShowCase/app.py` **##** a Python file contains back-end server code written in Python Flask
- `./WarpNet_ShowCase/templates` **##** a directory contains html files
- `./WarpNet_ShowCase/static` **##** a directory contains css, image and JavaScript directories

3. Interface Overview

localhost:5000



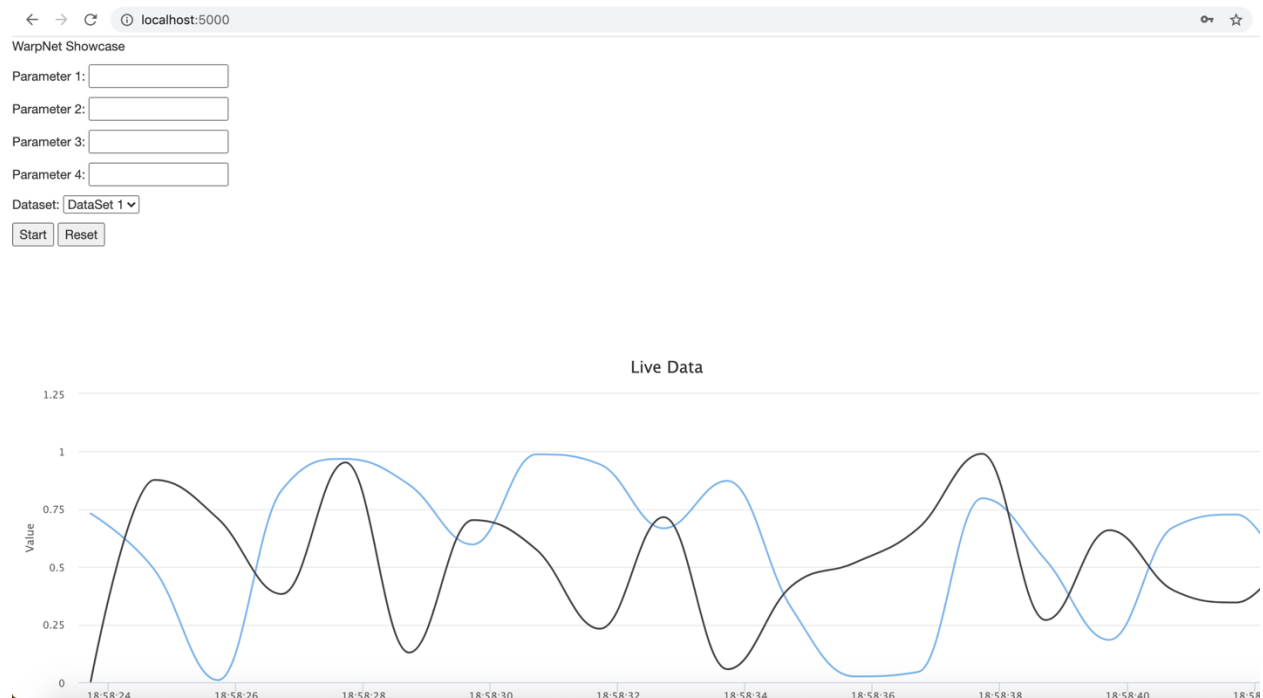
WarpNet

IP address:

Username:

Password:

- In the login page, enter your “red” or “indigo” server login information as picture shown.



- Interface main page

4. WarpNet Installation

- `cd WarpNet_ShowCase`
- unzip **warpnet.zip**
- Change the prefix path at the end of the **warpnet.yml** file to your own path and then clone the environment using: **conda env create -f warpnet.yml**
- Change all prefix paths at **cifar100_input.py** file to your own path
- **python cifar100_train.py --** to run the program

5. Dynamic Port Forwarding

- Purpose: connect to Tiger or Lion server seamlessly in any computer
- Here is an example to set up port forwarding to Tiger Server:

First, you need to setup a port forwarding to forward tiger.eecs.yorku.ca's 22 port to your local laptop's port 6998:

```
$ ssh -L6998:tiger.eecs.yorku.ca:22 yourname@indigo.eecs.yorku.ca
```

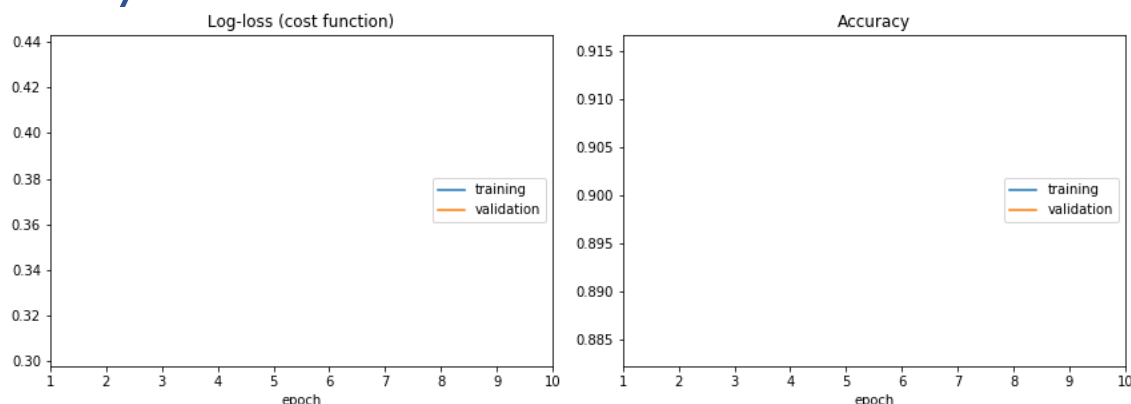
Then, open another terminal to set dynamic port forwarding to port 6999:

```
$ ssh -D6999 -p 6998 localhost
```

After that you can setup socks v5 proxy in your local laptop's **Firefox** browser networking setting page. The address is 127.0.0.1 the port is 6999. Make sure you enable proxy DNS. Then all the traffic will go through tiger.eecs.yorku.ca

Finally, we can connect to any open port at tiger.eecs.yorku.ca server by providing the url <http://tiger.eecs.yorku.ca:port number>

6. Maybe Useful Sources



- Livelossplot: <https://github.com/stared/livelossplot>

- Dashboard Tutorial (I): Flask and Chart.js: <https://towardsdatascience.com/flask-and-chart-js-tutorial-i-d33e05fba845>