Dash on Cannon

1. Go to a compute node. For example:
   salloc -p test --mem-per-cpu 4g -t 0-02:00 -c 16

2. Go to your working directory. For example, I used */n/holyscratch01* location:
   cd /n/holyscratch01/rc_admin/Users/mjoshi

3. Load the default Python module:
   module load python

4. Create a base conda environment at a desired location using the *--prefix* option. In this case, provide the absolute path to the location where you would like the environment to be stored. This would also be used as the name of the conda environment:

   conda create --prefix=/n/holyscratch01/rc_admin/Users/mjoshi/flask_test python=3.11 -y

   If you rather create the conda environment in its default location, $HOME, then do:

   conda create --name flask_test python=3.11

5. Activate the conda environment using the absolute path of the environment, if created using *--prefix* option:

   source activate /n/holyscratch01/rc_admin/Users/mjoshi/flask_test
   otherwise

   source activate flask_test

6. Install few data science packages:
   conda install jupyter numpy matplotlib pandas scikit-learn scipy -y

7. Install Flask: pip install -U Flask
   See https://pypi.org/project/Flask/

8. Based on https://pypi.org/project/Flask/
   create a Flask app, *app.py*, in your working directory for testing

9. Launch Remote Desktop on VDI:
   https://rcood.rc.fas.harvard.edu/pun/sys/dashboard/batch_connect/sys/RemoteDesktop/session_contexts/new

10. Open the terminal

11. Go to the directory where the Flask app is present
12. Repeat steps #3 & #5
13. Execute test by typing this command: flask run

    Right click on http://127.0.0.1:5000/ and choose “Open link”
    This would open the Firefox browser with the corresponding plot as shown below.