User Documentation –

I assume the user has either MacOS or an Ubuntu distribution.

- 1. Install Python3.9:
 - MacOS https://www.python.org/downloads/
 - Ubuntu https://bit.ly/2WFEfN1
- 2. Set up a virtual environment
 - MacOS https://bit.ly/3ilTTWj
 - Ubuntu https://bit.ly/3ij9qWG
- 3. Once the virtual environment has been configured, navigated to the folder it resides in and activate it.

4. Clone the Github repository in the same directory the virtual environment is in and navigate to the Senior Design Directory.

5. Run 'Python lstm.py'

```
Senior-Design — -zsh — 80×24

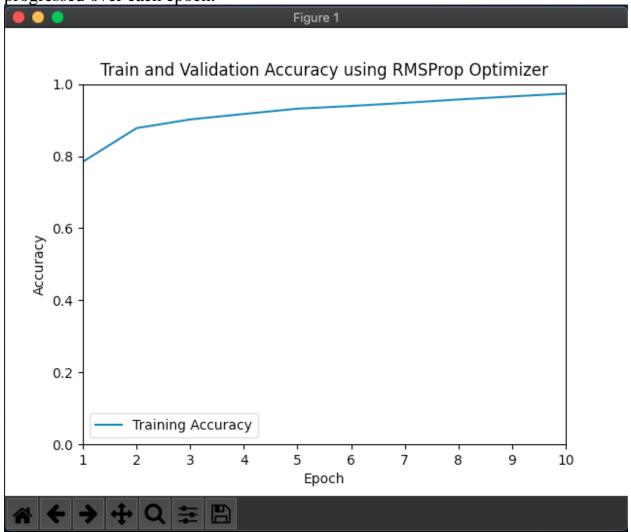
[(myenv) daapav@5480-lib2 Senior-Design % git clone https://github.com/AnuragN7/S] enior-Design.git
Cloning into 'Senior-Design'...
remote: Enumerating objects: 33, done.
remote: Counting objects: 100% (33/33), done.
remote: Compressing objects: 100% (31/31), done.
remote: Total 33 (delta 8), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (33/33), done.

[(myenv) daapav@5480-lib2 Senior-Design % cd Senior-Design
[(myenv) daapav@5480-lib2 Senior-Design % python lstm.py
]

[(myenv) daapav@5480-lib2 Senior-Design % python lstm.py
```

6. After the training epochs are finished, the first plot reveals how training has progressed over each epoch.



7. The second is a heatmap revealing how well the Neural Network performed. (Please see next page)

