README

For program titled “Single\_LSTM”

* Instructions to run Well 21, not cleaned and cleaned
  + Line 78 – importing file
    - Not clean: 
    - Clean:



* + Line 90 – splitting test and train data
    - Not clean:



* + - Clean:



* + Line 121 – finding error
    - Not Clean:
    - Clean: 
  + Line 127 – plotting
    - Not Clean:



* + - Clean:



* Instructions to run Well 2
  + To toggle between adam optimizer and SGD optimizer, change optimizer to ‘adam’ or ‘SGD





* + Line 78 – importing file



* + Line 90 – splitting test and train data



* + Line 121 – finding error



* + Line 127 - plotting



For Program titled “Repeating\_Trial\_LSTM.py”

* Same instruction for “Single\_LSTM”
  + Line 121 instruction move to line 123

For Program titled “T-test.py”

* To run T-test on means, import file titled [T-Test\_Mean\_Data.csv](https://github.com/csmidt95/LSTM-Modeling-Project/blob/master/T-Test_Mean_Data.csv)



* To run T-test on standard deviation, import file titled [T-Test\_STD\_Data.csv](https://github.com/csmidt95/LSTM-Modeling-Project/blob/master/T-Test_STD_Data.csv)



For program titled “LSTM\_Class\_Personal.py”

* Leave import as is
* Toggle with lookback line 42
* Toggle with neurons line 54
* To add another layer, set return sequence to True on line 54 and uncomment line 56
* Toggle with other parameters line 59

For program titled “Bootstrapping.py”

* The first time you run the program, you should receive an error. Rerun immediately, and it should work



* Toggle with bootstrapped sample sizes lines 46 and 47
* Same directions as “LSTM\_Class\_Personal.py”