

Sensor/ Load-Cell Filter Application

By Rohith J K

Front Screen

Data Processor App

Upload CSV or Excel File

Upload File

Select Columns:

Select Filter:

Window Size:

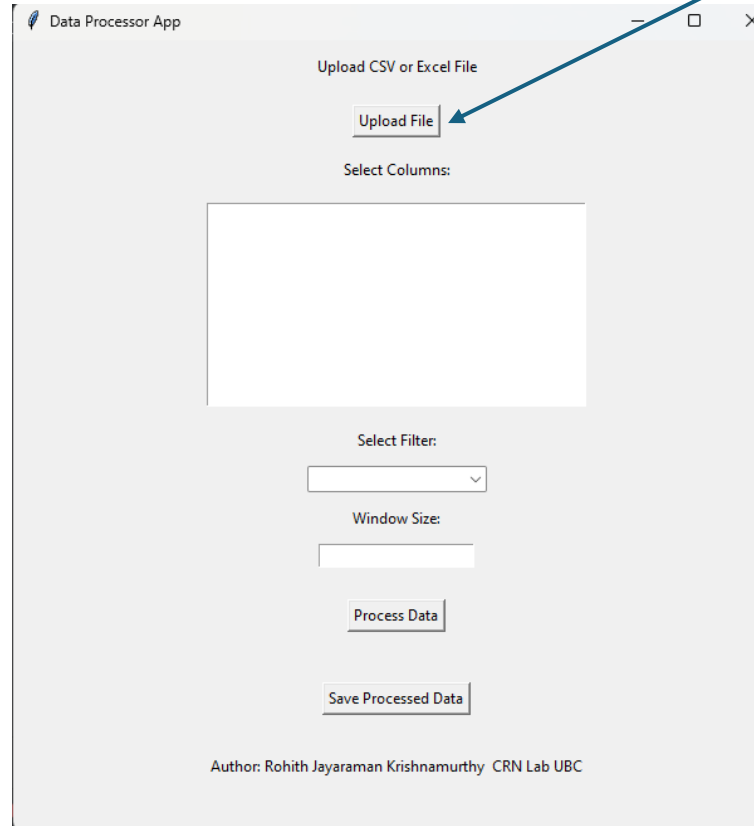
Process Data

Save Processed Data

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Step-1

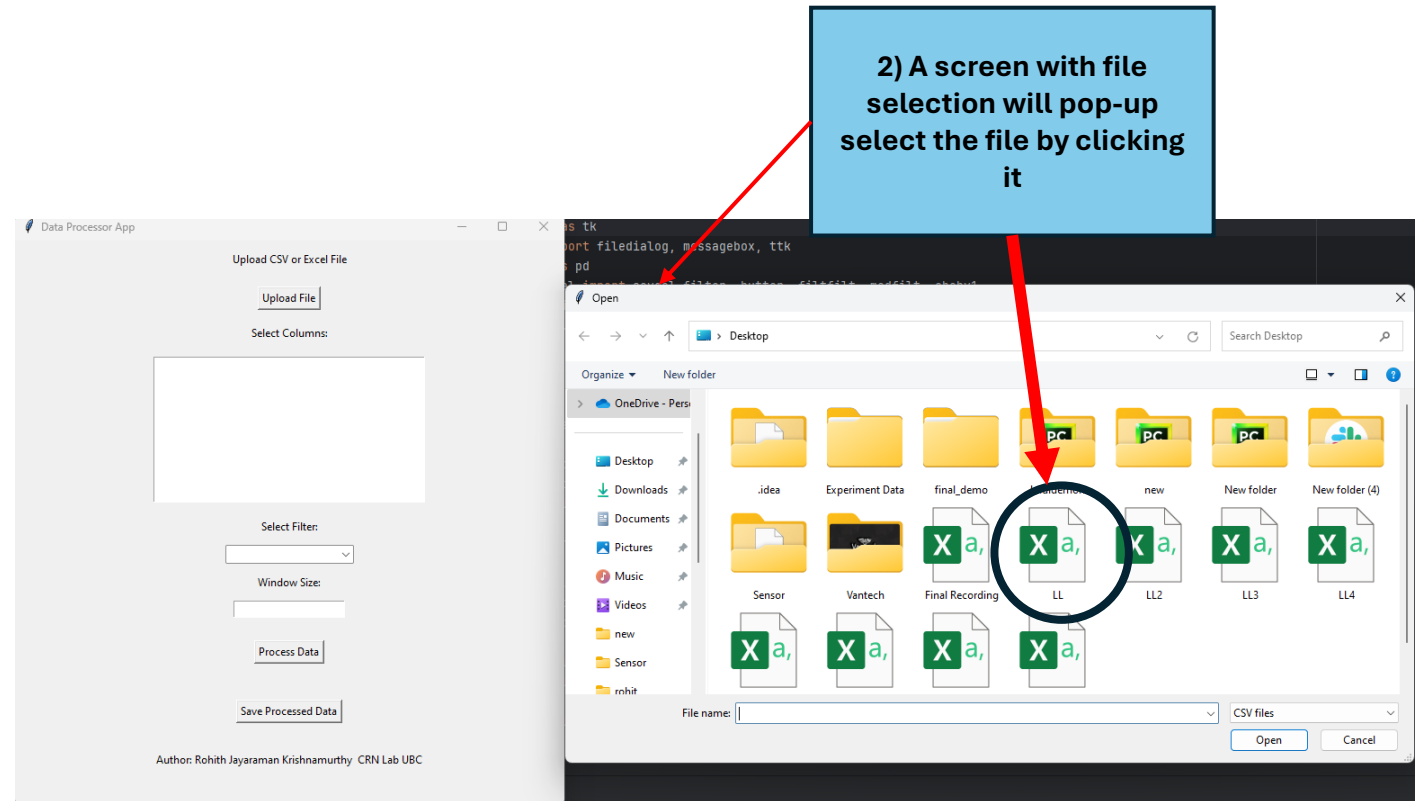
1) Click Upload File Button



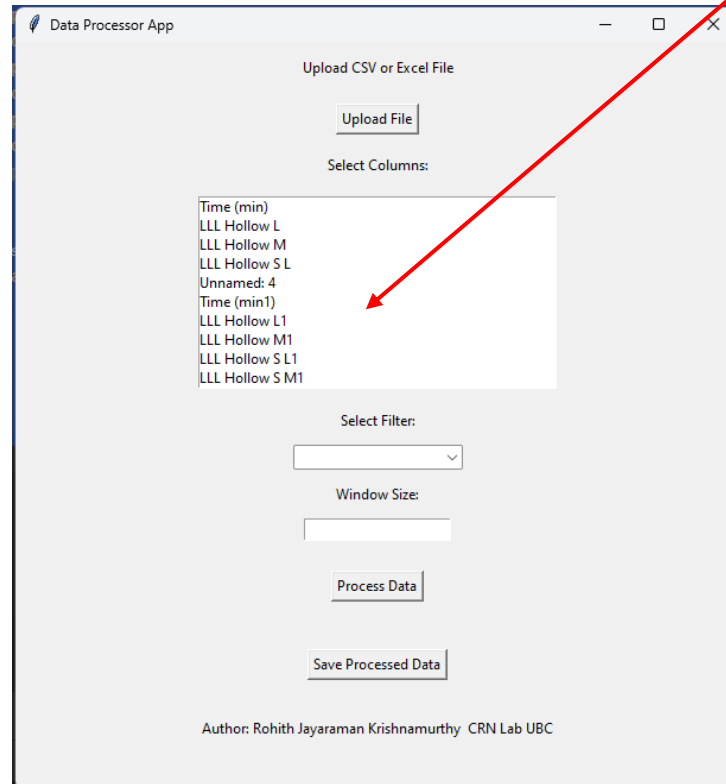
The screenshot shows a web application window titled "Data Processor App". The interface includes the following elements:

- A header section with the text "Upload CSV or Excel File".
- An "Upload File" button, which is highlighted by a blue arrow originating from the instruction box on the right.
- A "Select Columns:" label followed by a large, empty rectangular input area.
- A "Select Filter:" label followed by a dropdown menu.
- A "Window Size:" label followed by a text input field.
- A "Process Data" button.
- A "Save Processed Data" button.
- A footer section with the text "Author: Rohith Jayaraman Krishnamurthy CRN Lab UBC".

Step-2



Step-3



The screenshot shows the 'Data Processor App' window. At the top, it says 'Upload CSV or Excel File' with an 'Upload File' button. Below that is the 'Select Columns:' section, which contains a list of columns: 'Time (min)', 'LLL Hollow L', 'LLL Hollow M', 'LLL Hollow S L', 'Unnamed: 4', 'Time (min1)', 'LLL Hollow L1', 'LLL Hollow M1', 'LLL Hollow S L1', and 'LLL Hollow S M1'. A red arrow points from the text box on the right to the 'Time (min)' column in this list. Below the column list is a 'Select Filter:' dropdown menu, a 'Window Size:' input field, a 'Process Data' button, and a 'Save Processed Data' button. At the bottom, it says 'Author: Rohith Jayaraman Krishnamurthy CRN Lab UBC'.

"After the file is selected, the app will automatically split all the data into its columns and the columns will be seen in the app as shown in the app."

Step-4

Data Processor App

Upload CSV or Excel File

Upload File

Select Columns:

Time (min)
LLL Hollow L
LLL Hollow M
LLL Hollow S L
Unnamed: 4
Time (min1)
LLL Hollow L1
LLL Hollow M1
LLL Hollow S L1
LLL Hollow S M1

Select Filter:

Moving Average

Window Size:

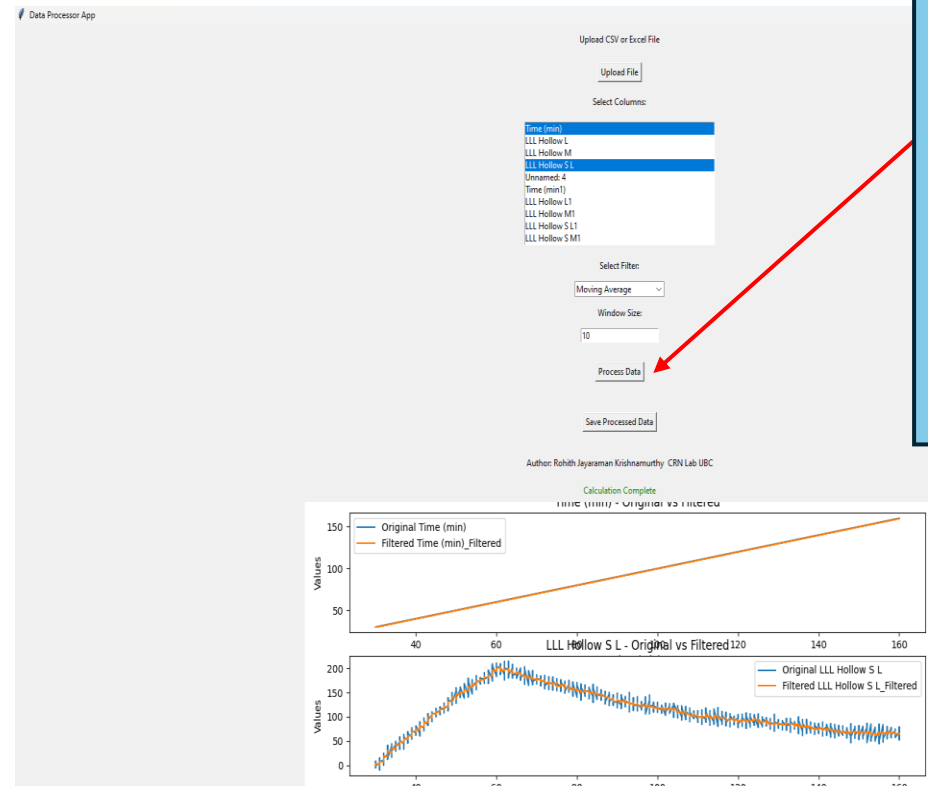
Process Data

Save Processed Data

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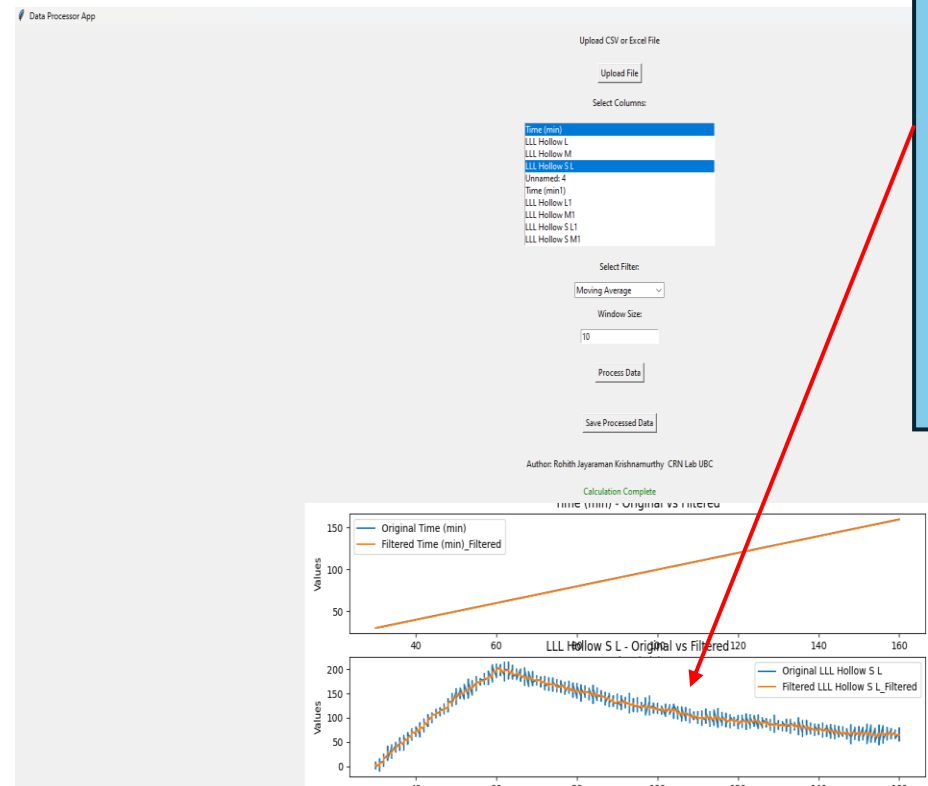
Select the filter algorithm

Step-5



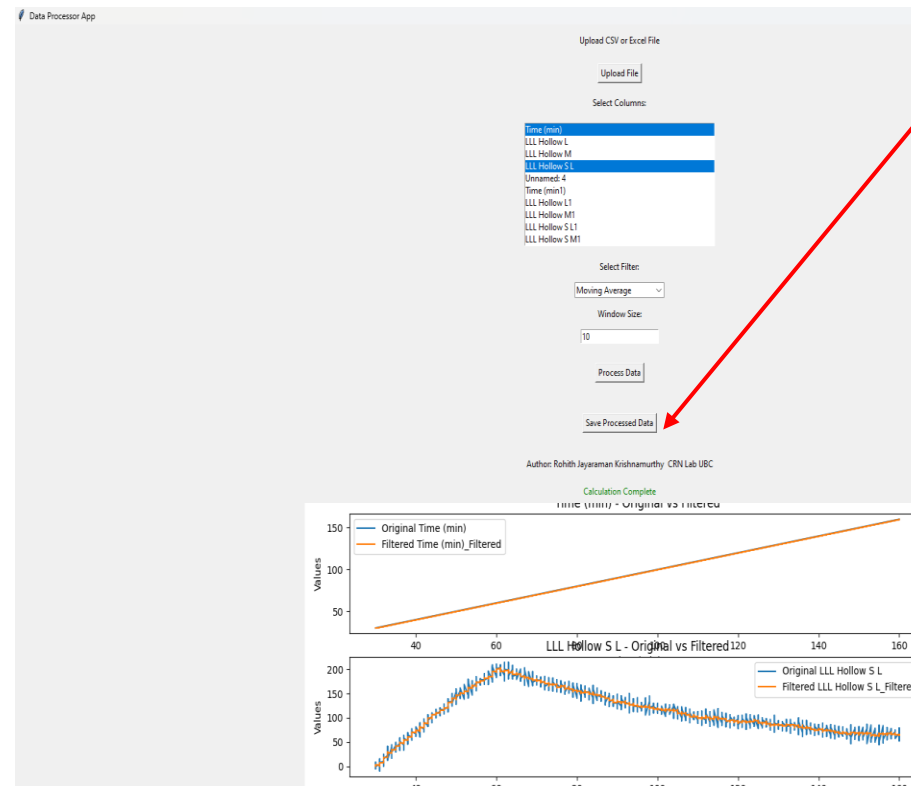
Select the Process Data button

Step-6



Visually see the filter level

Step-7



Click Save and rename the file
and select the location /
folder