**Automation with LSTM Network**

* Make sure to add table of contents
* What does Python script and other m file do?
* If the Python code is called, tell set up instructions and what additional files are doing. You can also check out Run Python Live Task here or the scripts here if that aligns with what you are doing: <https://github.com/MathWorks-Teaching-Resources/Programming-A-Starter-Project-Using-MATLAB-and-Python>
* Use Projects or start up files etc. to handle starting code and setting up paths. (you can see how projects, shortcuts and helper functions are used here: <https://github.com/matlab-deep-learning/Object-Detection-Using-YOLO-v2-Deep-Learning/tree/master>)
  + Projects: https://www.mathworks.com/help/matlab/projects.html
* There was also a digital twin model in MATLAB for TCLab in Process Control Course. I had shared that with Sean. If you encourage users to use actual, physical TCLab, tell which support packages are needed/which steps need to be completed. You can also link getting started with TClab resources from Process Dynamics and Control class.
* Is this exercise using Control Systems Toolbox or any toolboxes that are not part of core MATLAB? Make a section for prerequisites and tell which toolbox needed to be installed.
* People may run the entire script start to finish. Python part may error. To avoid that, add check boxes and conditional statements like if check box is checked, run Python section etc. Example (see line 1-2 in Part02\_Modeling Script): <https://github.com/matlab-deep-learning/Object-Detection-Using-YOLO-v2-Deep-Learning/blob/master/Part02_Modeling.mlx>
* Remind readers of interactive workflows for the network creation.
* What is commented out lstmfun doing? Is it necessary?
* There are big code blocks at the end with almost no explanation. Please add some explanation

**ARX Time Series Model**

* Add Table of Contents
* I get a warning for A{1,1} = [1 -0.36788];

A screenshot of a computer

Description automatically generated

* You can add some more explanation for System Identification Toolbox Method. If System Identification Toolbox needs to be installed, indicate that. What is happening in this example?
* Plots have no label and no explanation. It is hard to understand what is going on in this module and how the results should be interpreted. Please add labels to the plot and add some explanation of the results.
* You can add little bit more information on GEKKO or include some reference links. For any Python installation, you can add instructions or refer to any resource that shows set up instructions. If there is an earlier module that explains the set up, you can refer to that as well.

**Bit Classification**

* Nice table of contents
* Nice reference to similar exercise.
* You can add hyperlink to imagedatastore function
* “Change these values to modify the training neural network. “ – which values? Also, does changing all values make the training longer? Maybe you can say “changing hyperparameters may impact the training time” instead to be on the safe side.
* In interactive approach section, use the full name of the app – Deep Network Designer. You can also mention that this app is part of Deep Learning Toolbox and add this documentation link: <https://www.mathworks.com/help/deeplearning/gs/get-started-with-deep-network-designer.html>
* Maybe you can reduce the font size of labels after 79, it is cutting a bit. The same with line 180.

**Draw Classification**

* Good table of contents
* Nice mention of parallel training
* Maybe instead of saying 3 methods for support vector classification, you can say “Here are some relevant resources for support vector classification and list the links as bullets and put a brief description of what each link is about.
* Naïve Bayes – is it really 2 ways? It seems like there is fitcnb at both links?

**Handtracking**

* Good ToC and good mention of additional tools needed.
* You can explain what Image Processing and Integration of Webcam with MATLAB parts will do. Initially, you work with static image, then switch to video input, so you can explain before the scripts that you will start with static images and then transition to live images. Right now, it is a bit confusing. It would be nice to explain the purpose of each section.
* Check spelling, where is spelled as where
* Errored at line 68 – make sure to clear video object before this line. You had a video object from the previous block. Try this: <https://www.mathworks.com/help/imaq/deleting-image-acquisition-objects.html> ( I added imaqfind and delete(imaqfind) before clear at line 68 and it worked)

Error using imaq.internal.VideoDeviceInternal  
winvideo: The device associated with device ID 1 is already in use. A new videoinput object cannot be created for this device while it is in use.  
Error in imaq.VideoDevice

* You didn’t include the modified code for Simulink model. Make sure to include it. Otherwise, it doesn’t run. You can also create a project to handle paths and keep dependent files together.
* When you run doc examples, it changes directory, make sure to change the directory or path back to the folder we should be at.

**General comments about the folder:**

There are train and test folders and README files. Unless I look into each and figure out with what there are associated, it is hard to figure out what is related to what. Please use projects to group dependent files and handle paths. If there are any dependencies or related files, indicate the dependencies in the main scripts, otherwise if there is any missing file, it will be very hard to track down.

Projects: <https://www.mathworks.com/help/matlab/projects.html>

Dependency Analyzer: <https://www.mathworks.com/help/matlab/matlab_prog/analyze-project-dependencies.html>

Simulink side for projects/dependency analysis: <https://www.mathworks.com/help/simulink/dependency-analysis.html>