**Deep Learning**

* Project worked fine, but it would be good to mention any Python set up instructions if involves more than launching Anaconda and finding MATLAB. Maybe you can give a little bit intro about using MATLAB with Python (I don’t recall other modules covering that. If they do, you can put the other modules as reference).
* You may want to include this to make sure that users use compatible versions of MATLAB with Python: <https://www.mathworks.com/support/requirements/python-compatibility.html>
* If you want to add more set up instructions and resources about using MATLAB with Python, refer to my 9/14 e-mail with a pdf attachment.
* Mention which toolboxes of MATLAB are used in this module. It is a bit confusing, because for Face Detection, you referred to AP Monitor and everything is in Python there, so how it relates to MATLAB?
* Face detection and tracking examples from documentation would also be good resources: <https://www.mathworks.com/help/vision/tracking-and-motion-estimation.html?s_tid=CRUX_lftnav>

**KNearest**

* MATLAB is all capital. You spelled it as Matlab. Make sure to fix the spelling for correct branding.
* Instead of “predict method” in the text, using “predict” function would be better wording.
* Project worked fine and the code ran without any error.

**Adaboost Classification**

* Good, mention that Statistics and Machine Learning Toolbox will be needed.

**ARX Timeseries Model**

* MATLAB part worked fine, I couldn’t test Python since I don’t have it installed.
* You may want to include this to make sure that users use compatible versions of MATLAB with Python: <https://www.mathworks.com/support/requirements/python-compatibility.html>

**Computer Vision Introduction**

* Good
* Final output was a black screen for me although I was moving, is it normal?

**Deploy**

* Why did you use GEKKO MPC? Wasn’t the functionality you are looking for available with MATLAB MPC Toolbox or was it because they were giving different results?
* You can link MPC Toolbox Product Page: <https://www.mathworks.com/products/model-predictive-control.html>

**Emma: Logistic Regression:**

I have continued to be too busy to look at this much. I did take a peek at Logistic\_Regression.mlx.

I personally think it would be good practice to output both the identified value and the label value on line 51, e.g.

titleText = "Predicted: " + string(yp) + ", Actual: " + string(imds.Labels(n));

It was not totally clear to me what the students are expected to do (or what the professors are planning to add live in class). Is the idea to take the example code in lines 53-

130 and modify it so that it will actually classify the digits from the image datastore?

Overall, I think the structure does a good job of using the capabilities of live script to include mathematical expressions (even if I always use LaTeX 😃) and to give instructions and some code commentary as text. Perhaps it is worth articulating reasons why you would choose one or the other? In a few cases this file went with \_*both*\_ which was a bit much:

A screen shot of a computer

Description automatically generated

I hope this is somewhat useful. If I get a chance to review more, I will send you comments and consider coming along to a meeting.

-Emma

**Aycan’s take for logistic regression:** +1 to Emma’s comments. Is fitcecoc (linear) the right function for logistic regression? Compare to <https://www.mathworks.com/help/stats/fitglm.html>?

**LSTM Networks**

What are the interpretations of the results? Why LSTM results are so far from measured results in the last figure? Is it a coding error? Are results so different in the original one too?

**Thermophysical Properties**

Good

**Wind Power**

Since you are doing everything in MATLAB, perhaps, you can mention MATLAB equivalents of the modules in this paragraph:

The [TCLab Data Science modules 2-6](https://github.com/APMonitor/data_science) ([Import](https://apmonitor.com/pds/notebooks/02_import_export.html), [Analyze](https://apmonitor.com/pds/notebooks/03_analyze.html), [Visualize](https://apmonitor.com/pds/notebooks/04_visualize.html), [Prepare Data](https://apmonitor.com/pds/notebooks/05_prepare_data.html), [Regression](https://apmonitor.com/pds/notebooks/06_regression.html)) are available as a template for analyzing and performing the regression. There are [visualization and analysis notebooks on Kaggle](https://www.kaggle.com/berkerisen/wind-turbine-scada-dataset/code) such as [Wind Power Curve Modeling](https://www.kaggle.com/winternguyen/wind-power-curve-modeling) that give additional insight on wind power predictions.

* What’s the interpretation of the results?

**Line 122 errored, please fix it:**

**A white rectangular object with a black border

Description automatically generated**

**If you accept the fix above, it still errors**

**A white rectangular object with a black border

Description automatically generated**

**XG Boost Classifier**

Good

Any interpretation of the results?

**XG Boost Regressor**

To make formatting consistent with the other modules, you can make advantages and disadvantages titles bold

Any interpretation of the results?