**Concrete Strength**

**Part 1**

* In the table of contents, you can make titles consistent (capitalize P in the 2. Bullet)
* 1-D plots, did you mean download the file and add it to the folder you are working from? Capitalize F and E in File Exchange. “Download the file for the violin.m function at [file exchange](https://www.mathworks.com/matlabcentral/fileexchange/45134-violin-plot) and add it to MathWorks\MATLAB Add-Ons Functions.”
* Violin plots font size is different than the rest, but not a huge deal if you cannot fix it.
* What are x and y labels for the plots?
* Heatmap plot refers to “Pandas df.corr(). Maybe you can refer to MATLAB equivalent? <https://www.mathworks.com/help/matlab/ref/heatmap.html>
* Capitalize File Exchange in pair plot section.
* For grouping by color, gsscatter may also help: <https://www.mathworks.com/help/stats/gscatter.html>
* Check spelling “ Matlabs creates interactive plots for exploring data results. You can rotate plots, zoom in and zoom out, and double click to openen up a host of other options It is particularly useful for exploring 3-D scatter plots. **“** and capitalize MATLAB

**Part 2**

* Text refers to scikit learn, for splitting data. You can put MATLAB equivalent. **“**Randomly select values that split the data into a train (80%) and test (20%) set by using the sklearn train\_test\_split function with shuffle=True.”: <https://www.mathworks.com/help/stats/cvpartition.html>
* Add labels to the figure after line 85.
* You can mention interactive training methods (if you described that at a different script, you can just refer to the other script)

**Soil Classification**

* I got “unable to load the project” error.

**A screenshot of a computer

Description automatically generated**

* **Soil Classification.mlx**
* Capitalize Live Editor after line 10. Check spelling” rescaled”
* In the text of **Build the CNN model**, you can say the network was built interactively using Deep Network Designer and a code was automatically generated.
* Good screenshots to demonstrate interactive workflow.
* Maybe you can add a quick note on what the supporting function does.

**Additive Manufacturing**

* Under prediction and analysis section, you can add R^2 as equation. If the original text is using “rho” symbol, you can add the symbol as equation as well.
* In analysis section above line 212, if you rather use R^2 instead of text, you can take the route suggested above.
* Interactive Method – you can mention that the apps are part of Statistics and Machine Learning Toolbox and it should be installed to see the apps associated with it. This is the case for the other scripts too. Perhaps, we can add a disclaimer for the course saying that the scripts require statistics and machine learning toolbox, deep learning toolbox etc.

**Automotive Monitoring**

### Check spelling “measurements”

### Good use of geoplot

### Bit Classification

### Good

**Cascade Classifier**

For me, the tracker didn’t work very well, showing bounding boxes around my chest, but the code ran without an error. If the default doc example is working better, you can launch that with openExample('vision/FaceTrackingUsingKLTExample')

**Classification Overview**

Good

**Computer Vision**

Video colors were black for me and I just saw the edges of my image, was that what you intended?

You can add this as further resource: <https://www.mathworks.com/help/supportpkg/usbwebcams/index.html>

**Deploy**

Check spelling to capitalize the initial letter of Python.

You can add further resources for MATLAB with Python: <https://www.mathworks.com/products/matlab/matlab-and-python.html>

**Gaussian Process Regression**

Good

**Logistic Regression**

You can tell what supporting function does, the rest is fine.

**LSTM Networks**

Good, you can also mention that LSTMs can be constructed and trained interactively and refer to the other scripts where you had Deep Network Designer interactive workflows.

**Neural Network Classifier**

Good, I’m assuming the image is from the original script and Dr. Hedengren has rights to use the image.

**Spectral Clustering**

Good

**Steel Plate Defects**

Good

**Stochastic Gradient Descent**

Good

**Thermophysical\_Properties**

* Text above line 20 says that data set is split randomly, but the script splits the data based on indices. If you randomly want to split them, maybe cvpartition may be a better option? Is the original code also splitting up based on the index?
* Good explanations/interpretations.
* Since you used programmatic approach, you can mention which steps could be done interactively and refer to the the earlier scripts where you described interactive workflows.

**XGBoot\_Regressor**

Good