Feedback/Comment

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**Overall**

1. Keep naming conventions consistent between modules teams.
2. **Folder structure:** consider separating drafts, ready for review, validated, … etc and make sure the folder names are self-explanatory.
3. If there are dependencies, considering numbering them in sequence.
4. **Communication:** set expectations
   1. Summarize questions in a central place (for example, in this log) so that we don’t miss any of your questions.
   2. Please be explicit and let us know which one(s) you’d like us to review. In this case, it seems that “Final Modules” would contain the ones for review or will be published?
5. Consider adding table of contents to live scripts for easier navigation.
6. Where available, text description is very well written. Great job!
7. Consider adding graphics and equations where applicable, to make modules more self-serve and visually easier to digest.

**Module\_Team1**

Please avoid punctuations in file names

**GatherData\_forvalidation\_validated\_needs\_revision**

1. You can also show import tool here as a way to bring data interactively into MATLAB or you can link documentation.
2. Yes, there is a way to webscrub in MATLAB, you can use “webread” <https://www.mathworks.com/help/matlab/ref/webread.html>
3. Rightjoin – are you asking about merging tables, if yes, you can do that <https://www.mathworks.com/help/matlab/ref/table.join.html>
4. You can include doc links
5. You can use “summary” function to show overall summary of the data

* <https://www.mathworks.com/help/matlab/ref/table.summary.html>

Other suggestions:

* Add table of contents to live scripts
* You can add additional resources links such as MATLAB Onramp, MATLAB Fundamentals etc. and point out relevant sections.
* Maybe timetable and datastore would be nice to mention
  + <https://www.mathworks.com/help/matlab/ref/timetable.html>
  + <https://www.mathworks.com/help/matlab/datastore.html>

**Clean.mlx**

* Are you planning to add any comments to this script?
* It will be also nice to show preprocessing interactively using apps or at Import Tool when you are importing data.
* Good use of logical indexing

**Module\_Team2**

**Feature\_Engineering\_Module**

* Check spelling – there are spelling mistakes
* Maybe you can link this: <https://www.mathworks.com/discovery/feature-extraction.html>
* Feature hashing plot – investigating (maybe Jianghao can comment)
* Text reflects Python (under Feature Collection and Generation) – needs revision
* Are you looking for chi square goodness of fit test? (maybe Jianghao can comment) <https://www.mathworks.com/help/stats/chi2gof.html>

**Module\_Team2\_splitdata**

<https://www.mathworks.com/help/matlab/matlab_prog/split-data-into-groups-and-calculate-statistics.html>

<https://www.mathworks.com/help/matlab/ref/matlab.io.datastore.imagedatastore.spliteachlabel.html>

* You can also set split ratios when you are training the models
* Cvpartition is good

**Module\_Team3**

Feature engineering:

**Question from the team:** “How can we get the K scores in matlab? Dr. Hedengren uses a python package, sklearn.feature\_selection to get k scores and then he plots those scores for each feature. We cannot find an equivalent for this in MATLAB.”

**Answer:** K-score is not a terminology. In this case, I think it’s choosing the top K highest scoring features. K is a number that falls in 1:total number of features. You can decide on what test you run (i.e. a scoring function) to calculate a score, and then sort() and return the indices of the K highest scores.

**Final Modules**

Stats\_Module.mlx – need a title

Visualize\_validated.mlx – need more text description/comments in the main part of the script