Results\_outline

BUILDING A QUESTIONNAIRE / SURVEY TO UNDERSTAND WHAT IS USEFUL IN THE PLATFORM:

* Read up and find out the main problems in ML applied to medicine
* Think about the ways the platform solves those problems and remind the audience
* Then think about the problems that have yet to be solved
* Think about a way to ask questions that does not “enforce” a specific response to the person answering
* Write questions
* Interview doctors after having shown the platform
* From the responses: what is interesting and confirm or not what we should do. What needs to be done for the platform to be used without the help of a data scientist? Etc…

BUILDING A COMPREHENSIVE MACHINE LEARNING MODEL INTERPRETATION TOOL:

* What is interesting for doctors? From last part 🡪 one of the main things: make it as easy as possible to use YET have as many features as possible…. Of course.
* Look at ipynb to check that we have everything
* Before integration: transform and etc to fit to ML and then:
* Some basic metrics
* Roc and sens and spec
* Maybe run Boruta?
* Feature importances, different ways, comparison of chi2 (doctors like it) to regular Boruta style feature importance
* SHAP summary plot: would be great if you could see the x values when clicking on it ! plus possible the shap plot of that specific value? Or the lime one?
* Construction of the severity score
* Inspection of different “bins”
* Fetch val X and val y from these. Look at bin distributions? Look at feature importances per bin
* Fetch TN / TP etc , select one index of interest. (therefore should have plotly: bars with little dots (jitter/swarm plots in sns) which at least allow you to see the index!) then shap summary plot or force plot or lime plot or all 3
* Have visualization of the datapoint you selected: distribution of each feature + where it is located within the distribution