Requirements for Submission :

1. ) Document(Presentation/Text) on the solution that can contain:
   1. Intuition behind the solution
   2. Logic and Working
   3. Different Components
   4. Architecture
   5. Documentation on each class and its need
   6. Open source algorithms used in the submission
   7. How to : detailed explanation on how the solution should be run for
      1. Different datasets
      2. Different algorithms
   8. Results section should contain:
      1. How local explanation looks like
      2. How global explanation looks like
      3. More information relevant and unique advantages (eg. Visualization
2. ) The code for framework :
   1. You have to develop the application on your local system and submit it on HackerEarth in tar/zip file format along with instructions to run the application and source code.

Functions expected in template submission

Let’s call the XAI class instance ‘Xai’

Naming:

* \* on a particular argument indicates that it is an optional argument
* .\* in argument list indicates that the students can use more arguments if they want. Provided they clearly state the need for it

Mandatory functions:

To generate local predictions, outputs the explanation

Xai.explain\_local([row(s) for explanation], classification\_model\*, metadata\*, .\*)

* Classification\_model : the instance of classification algorithm, that has been trained
* ([row(s) for explanation] : is an array of rows for which explanation needs to be given in the same format on which the models were trained
* Metadata : any other metadata required for the functioning such as algorithm type,datatypes etc

To generate global predictions, output the explanation

Xai.explain\_global(classification\_model, training data\*, metadata\*)

* Classification\_model : trained or untrained classification\_model
* Training\_data: training data, if needed
* Metadata : any other metadata required for the functioning such as algorithm type,datatypes etc

Optional Functions

If the framework needs to be trained before starting to make the prediction

Xai.fit(classification\_model, training data,metadata\*)

* Classification\_model: trained or untrained classification model (pleace specify which one)
* training\_data : training data
* Metadata : any other metadata required for the functioning such as algorithm type,datatypes etc