

# IBM AI Fairness 360 API Notes

- 4 main modules
  - Algorithms - used for detection within different stages of an algorithm (pre-processing, in-processing, etc.)
  - Datasets - used for analysis and detection within the dataset itself
  - Explainers - used for explaining various metrics and their values within the dataset
  - Fairness Metrics - used for determining fairness throughout datasets, algorithms, etc.
- 1 “extended” module that ties in with sklearn
  - Has submodules that consist of:
    - Dataset loading functions
    - Fairness metrics
    - Pre-processing algorithms
    - In-processing algorithms
    - Post-processing algorithms
    - Utility functions (misc.)
      - Mainly deals with input validation for debiasing algorithms
- Has plenty of potential benefits for our team when we start to look at raw compas data
- Would allow us to experiment with debiasing throughout different stages of the overall pipeline
- Easy integration with python and ability to tie in with sklearn
- Easy to read documentation