Fairness in AI -- Practice Session

In this practice session we will use the AI Fairness 360 library from IBM. Have a look here and at its github page.

1. Install AIF360

To install AIF360 using conda, execute these commands:

```
conda create --name aif360 python=3.9
conda activate aif360
conda install -c conda-forge aif360
conda install numpy==1.23
```

The current AIF360 version (0.50) is incompatible with python 3.10 and higher, and with NumPy 1.24 and higher.

2. Download Datasets

2a. German Credit

Download the German Credit data file from this website, agreeing to its license.

Direct download links:

- german.data
- german.doc

Place the files in the `data/raw/german/` folder inside your conda environment. For example, my full path is `/Users/dimitris/miniforge3/envs/aif360/lib/python3.9/site-packages/aif360/data/raw/german/`

2b. Adult

Download the Adult data files from this website, agreeing to its license.

Direct download links:

- adult.data
- adult.test
- adult.names

Place the files in the `data/raw/adult/` folder inside your conda environment.

3. Run the notebooks

First have a look at `tutorial_credit_scoring.ipynb` and then at `demo_reweighing_preproc.ipynb`.