Intelligent Software Engineering

Instructions

The usage of this project is fairly simple. All modules are located in the `main` folder, where `main.py` is the main entry file for executing the code. To simply get the CPT running, execute the following command in the project directory (**after reading `requirements.pdf`**):

```
python3 main/main.py
```

Then the CPT Tuning Process will automatically start, and results will be saved as `results.csv` under the `results` folder.

Please note that this executes the entire baseline, HRAS variations and HGAS tuning, and will therefore take a significant amount of time to finish executing (under our experimentation, it took ~**4hrs**). Therefore, if faster running times are required, it is recommended to **only execute the baseline and HRAS variations**, which can be done by changing **line 130**, or:

```
hras_adaptive_gaussian_results = hras(cleaned_data, runs,
        budgets, hras_adaptive_gaussian_is, 4)
```

... in `main.py` to:

```
hras_adaptive_gaussian_results = []
```

Relative Path Issues

If there are issues with file errors or similar, this is likely due to the hard-coded relative paths. This can simply be fixed by changing the file paths defined in `main.py` to the appropriate paths on your system, though this project *should* work out the box.