

KARLSRUHER INSTITUT FÜR TECHNOLOGIE

TEST REPORT DOCUMENT

Numerical Linear Algebra meets Machine Learning

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1 Stats

Lines of Code:

Python: C++:

others:

Test Coverage:

2 Continuous Integration

To ensure a high quality on our code, we increased the building process of our code.

When pushing a branch, not just the test are ran on Travis, but also we generate a coverage report that will be sent to CodeClimate. This way you get a small overview on each pull request about the current coverage and the coverage on the newly committed lines. Added to that, you can get a complete overview on the CodeClimate Webpage.

After a successful merge to the master, we also introduced two new deployment steps. The first is that the wiki pages on GitHub are build again in case a change happened on this files. The second step is that we generate a code documentation is generated and uploaded to GitHub pages.

3 Code Documentation

In the first phases we already decided to comment our code with the Doxygen-Syntax. In the implementation phase we took good care in documenting our code properly. The problem now was that everyone would have to generate this documentation for himself, which is a lot of work.

To easy things up, we added a deployment step, which generates this documentation and deploys it to GitHub pages.

This way everybody can have a look at the latest version of the documentation only be opening a link.

4 Wiki

We already collected some documentations for working with our project in the previous phases and decided to make them available in the GitHub wiki. Because the GitHub wiki holds its own git structure and we wanted to keep all our files in one place, we decided to integrate the wiki in our build process.

Therefore we created a folder in the projects root which holds all the wiki's entries in markdown files together with an configuration file. This configuration file is used to dynamically generate a sidebar that holds a navigation for the wiki entries. All the contents of this folder together with the generated sidebar are then copied to the wiki's git.

After this is done, the new wiki entries can be found on GitHub.

5 Bugs

Description	Fix	Time to Fix	Reporter
Command line input with more than one space between arguments resulted in program crash	Changed the parameters of the string-split function for the expected behavior (remove spaces)	2 hours	Anna
Corrupted configuration file results in a program crash	Opening config file now happens in a try-except block and errors are reported to user (no crash)	1.5 hours	Simon
Labeling or collection on operating systems other than linux resulted in crashes	Current OS is checked at start of module and wrong OS's are reported to user	2 hours	Simon
User entered size parameter was not used in collector	Removed static size declaration and started using the size input parameter	1 hour	Anna
Default parameters are not correctly passed to the modules	Config file had wrong format, needed to be fixed/standardized	3 hours	Simon
When not entering anything, the program crashes	Added extra check to prevent a invalid operation and displaying error message if check fails	0.5 hours	Simon

6 Glossary