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	Changed the parameters of	2 hours	Anna
more than one space be-	the string-split function for		
tween arguments resulted	the expected behavior (re-		
in program crash	move spaces)		
Corrupted configuration	Opening config file now	1.5 hours	Simon
file results in a program	happens in a try-except		
crash	block and errors are re-		
	ported to user (no crash)		
Labeling or collection on	Current OS is checked at	2 hours	Simon
operating systems other	start of module and wrong		
than linux resulted in	OS's are reported to user		
crashes			
User entered size parame-	Removed static size dec-	1 hour	Anna
ter was not used in collec-	laration and started using		
tor	the size input parameter		
Default parameters are not	Config file had wrong	3 hours	Simon
correctly passed to the	format, needed to be		
modules	${ m fixed/standardized}$		

6 Glossary