Project Setting

Docear (www.docear.org) is what we call an "academic literature suite". It integrates everything you need to search, organize and create academic literature in a single application: a digital library, reference manager, PDF and file manager, note taking and mind mapping. And the best: Docear works seamlessly with many existing tools like Mendeley, Microsoft Word, and Foxit Reader.

Docear is a part of the *Data and Knowledge Engineering Group* (DKE) of Prof. Dr. Andreas Nürnberger at the computer science department at OvGU. It's free and open source, funded by the German Federal Ministry of Technology and developed by scientists from around the world, among others from OvGU, and the University of California, Berkeley.

Your Research Project

Docear has access to lots of information about its users (what they search for, what they read, and what they are currently working on). We use this information to recommend research papers to them. For instance, if a Bachelor student drafts his thesis about databases, we recommend him the latest research papers in this field. However, current recommendations are far from being perfect.

Your research question to answer will be "How to provide (better) research paper recommendations to our users?". As such, it will be your task to support the Docear team in researching how the interests of Docear's users can be identified from the data and how these interests can be matched with interesting items to recommend. You will do literature research, create new ideas, analyze user data, and implement new recommendation approaches in JAVA. Of course, you don't have to do all of this alone – you will be closely cooperating with the Docear team. Your work will be integrated into Docear and used by thousands of researchers around the world. If your work is outstanding, we will write a research paper with you about your results.

Requirements

You should have a profound knowledge of the programming language JAVA. Knowledge in statistics, machine learning, other programming languages (especially C/++ or Python) and/or MySQL, neo4j, Hibernate, Jersey, REST Web Services, Tomcat, and Apache is beneficial, but not required. Of course, we would appreciate if you spoke German but it would be no problem, if you don't. We would prefer, if you apply for a long internship (12 weeks) but you can also apply for a shorter internship. If you are interested in combining your internship with writing a Bachelor thesis, please let us know in advance (this would be highly welcome). You can start at any date you want in summer or autumn 2013.

The University and Around

The Otto-von-Guericke University is a rather young university located in the center of Magdeburg. Especially the computer science department is well equipped and in a newly renovated building. For more information about the university read here: http://en.wikipedia.org/wiki/Otto-von-Guericke-Universit%C3%A4t_Magdeburg

Magdeburg has a nice cultural life, beautiful parks, and a big shopping mall. Housing is rather cheap. You may get a room in a shared flat for as little as 150€ a month (however, slightly over 200€ is more realistic). Read more about Magdeburg on Wikitravel and keep in mind that Berlin (German's vibrant capital) is just an hour away: http://wikitravel.org/en/Magdeburg

Contact

Please do not hesitate to contact us if you have any questions: info@docear.org

Important

Before you apply, read the additional information provided at http://www.docear.org/docear/jobs/

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