



**L3S Research Center**  
**www.L3S.de**

Appelstr. 4  
30167 Hannover  
Germany

Telefon: +49 511 762-19775  
Fax: +49 511 762-17779

<http://www.L3S.de>

Hannover, September 13<sup>th</sup>, 2013

### **Certificate – Rakshit Gautam**

This is to certify that Mr. Rakshit Gautam, born on September 13<sup>th</sup>, 1993, in Kota City, Rajasthan, India, worked as intern from May 15<sup>th</sup>, 2013 to August 15<sup>th</sup>, 2013 at the L3S Research Center, associated to the Leibniz University of Hannover, Germany.

Mr. Rakshit Gautam worked under my supervision in problems related to Machine Learning and in particular to Recommender Systems. Rakshit implemented several state-of-the-art algorithms for Collaborative Filtering. His implementation was used as baseline for our experiments in the lab, for instance participating in the ACM Recsys Challenge 2013 organized by Yelp. He was also in charge of collecting and mining data from the Twitter stream in order to analyze the difference in English expressions from U.S.A. And U.K. In addition, Rakshit also helped us to conduct surveys and analyze data from Youtube.com in order to improve search and recommendation algorithms.

Rakshit also actively participated in our regular knowledge exchange activities at the L3S, including our reading SIGRECSYS group sessions, where we discuss top influential papers in the area of recommender systems. He also attended our weekly research seminar session given by researchers at our group.

Dr. rer. nat. Ernesto Diaz-Aviles  
<diaz@L3S.de>

Senior Researcher  
L3S Research Center  
Gottfried Wilhelm Leibniz Universität Hannover  
Germany

**Forschungszentrum L3S**  
Appelstraße 9A  
30167 Hannover