

Satarupa Guha

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EDUCATION

Master of Science, Computer Science
IIIT Hyderabad (2013-Ongoing)
GPA 9.19

Bachelor of Technology, Computer Science
Heritage Institute of Technology (2009-2013)
GPA 8.81

Higher Secondary, Science
Nava Nalanda (2007-2009), West Bengal Council of Higher Secondary Education
86.4%

Nursery, Primary & Secondary
Gokhale Memorial Girls' School (1995-2007), West Bengal Board of Secondary Education
92.6%

EXPERIENCE

Teaching Assistant Monsoon 2014
Web Mining, instructed by Dr. Manish Gupta, IIIT Hyderabad

Research Assistant July 2013-Present
Search and Information Extraction Lab, IIIT Hyderabad guided by Dr. Vasudeva Varma

Data Science Intern July 2014, April 2015
Flipkart, mentored by Samik Datta and Mohit Kumar

Summer Research Intern June 2012-July 2012
Center for Data Engineering, IIIT Hyderabad, guided by Dr. Kamal Karlapalem

Summer Intern June 2011-July 2011
IIT Kharagpur, guided by Dr. Rajib Mall

RESEARCH

Weakly Supervised Joint detection of events and sentiment from Twitter
Jan 2015-Present

Working with Prof. Vasudeva Varma, Samik Datta and Mohit Kumar, I worked on a weakly supervised approach for joint detection of events as well as the associated sentiment for the event. The novelty of the approach is two-fold: we augment the event detection using prior information about sentiment around the event as well as improve the sentiment detection by utilising the additional context of the event.

Aspect based Sentiment Analysis of Reviews

Oct 2014 - Jan 2015

Worked with Prof. Vasudeva Varma and Aditya Joshi to identify the aspects of entities in a document and the sentiment expressed for each aspect of those entities.

Published at International Workshop on Semantic Evaluation (SemEval-2015)

Sentiment Analysis in Twitter

Dec 2014 - Jan 2015

Published at International Workshop on Semantic Evaluation (SemEval-2015)

Detecting Influential Nodes for k-hop Reachability in Social Networks with Applications to Viral Marketing

Jan 2013-Jan 2014

Worked with Prof. Partha Basu Chowdhuri and J.M.Manasa on a problem which is similar to finding minimum dominating set but differs in terms of number of hops needed to reach all the nodes. We have generalized the problem as k-hop dominating set problem, where a maximum of k hops will be allowed to spread the information among all the nodes of the graph.

Under review at Information Processing and Management Journal

Determining Maximal Common Subgraphs in Geometric Graphs

June 2012-July 2012

Worked with Prof. Kamal Karlapalem and J.M.Manasa as a part of summer internship at IIIT Hyderabad

Hardware Acceleration with Mitrion-C

Jun 2011-Mar 2012

Worked with Prof. Prosenjit Gupta and J.M.Manasa on using Mitrion tools to parallelize some basic sorting and Computational Geometry algorithms to be run on FPGA based Hardware Accelerators.

Published at the 3rd All-India Inter-Engineering College Academic Meet 2012

SKILLS

Languages: Python, Java, Matlab, C, HTML, CSS, Javascript

Tools, libraries & packages: Scikit Learn, Lucene, Elastic Search, Numpy, Scipy, Latex, Git, Mallet Topic Modelling tool kit, LibSVM, Vowpal Wabbit

EXTRA-CURRICULAR ACTIVITIES

- Swimming at Calcutta Club, Kolkata & Gopichand Swimming Pool, Hyderabad
- Volunteer at ACM Women Student Chapter, IIIT Hyderabad
- Lead at Python Hobby Group, ACM Student Chapter, Heritage Institute of Technology
- Volunteer at Asha Kiran, school for needy children run by IIIT Hyderabad