

# Shubhanshu Mishra

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## EDUCATION

**University of Illinois at Urbana-Champaign**, Urbana-Champaign, Illinois, USA

Doctor of Philosophy (Ph.D.) in Library and Information Science Aug 2013 –

Advisors: Jana Diesner & Vette Torvik

Research areas: Data Mining, Social Network Analysis, Machine Learning

Cumulative GPA: 3.84 / 4.0

**Indian Institute of Technology**, Kharagpur, India

Bachelor of Science (B.S.) in Mathematics and Computing Jul 2007 – Jul 2010

Master of Science (M.S.) in Mathematics and Computing Jul 2010 – May 2012

Graduated with College Honors.

Cumulative GPA: 7.29 / 10.0

## RESEARCH EXPERIENCE

**iSchool**, University of Illinois at Urbana-Champaign

Research Assistant

*Incremental Sentiment Analysis for Social Media Data* May 2014 –

Supervisors: Jana Diesner

Research areas: Sentiment analysis, Machine Learning, Visualization, Tool Development

*Profiling authors and articles based on novelty, expertise and self-citation in PubMed* Jan 2014 –

Supervisors: Vette Torvik

Research areas: Data Mining, Statistical Analysis, Bibliometrics

*Entity Extractor using CRF and Deep Learning* May 2014 –

Supervisors: Jana Diesner

Research areas: NLP, Machine Learning, Deep Neural Networks

*SentiNets - User classification based on sentiment of tweets about Social Causes* 2013 – 2014

Advisor: Jana Diesner

Research areas: NLP, Machine Learning, Social Network Analysis

**Department of Mathematics**, Indian institute of Technology, Kharagpur

*Master Thesis: Analysis of Social Media Data to determine Positive and Negative Influential Nodes in the Network* Jul 2011 – May 2012

Supervisors: Dr. Gloria Ng (NUS, Singapore) & Dr. Pawan Kumar

Research areas: Sentiment analysis, Machine Learning, Visualization, Tool Development

**Institute of Systems Science**, National University of Singapore

Research Assistant

*Tagging Singapore - A cloud based system using mash-up of dynamic data and online geographical maps for information co-creation* May 2009 – Jul 2009

Supervisors: Dr. Gloria Ng

The work was incorporated as a workshop exercise in the course on Service Innovation [SG5228].

## PUBLICATIONS

Mishra S et. al, “Sentiment Analysis with Incremental Human-in-the-Loop Learning and Lexical Resource Customization”, in *ACM Hypertext*, Cyprus, Turkey. 2015 [POSTER]

Mishra S, Diesner J, Tao, L, Surbeck, E and Byrne, J “Incremental sentiment prediction based on human in the loop learning”, in *GSLIS, Research Showcase*, Champaign, IL 2015 [POSTER]

Mishra S, Phelps K, Agarwal S, Picco J, Guo J, Diesner J, “Enthusiasm and Support: Alternative Sentiment Classification for Social Movements on Social Media”, in *ACM Web Science*, Blomington, IN. 2014 [POSTER]

Diesner J, Aleyasen A, Mishra S, Schecter A, Contractor N, “Comparison of Communication Networks built from explicit and implicit data”, in *Computational Approaches to Social Modeling (ChASM 2014)*, Blomington, IN. 2014

Agarwal S, Mishra S, Guo J, Phelps K, Picco J, “SentiNets: User Classification Based on Sentiment for Social Causes within a Twitter Network”, at *GSLIS Research Showcase 2014*, Champaign, IL 2014 [POSTER]

Mishra S, Torvik V, “Measures of Novelty and Growth of Bibliometrics”, at *GSLIS Research Showcase*, Champaign, IL 2014 [POSTER]

Agarwal S, Mishra S, Guo J, Phelps K, Picco J, “SentiNets: User Classification Based on Sentiment for Social Causes within a Twitter Network”, at *iConference*, Berlin, Germany 2014 [Presentation]

Wilner S, Mishra S, Aleyasen A, Soltani S, Diesner J, “Comparison of Network Data Constructed from Bodies and Meta Data of Text Corpora”, at *Sunbelt*, St. Petersburg, FL 2014 [Presentation]

Diesner J, Aleyasen A, Kim J, Mishra S, Soltani S, “Using Socio-Semantic Network Analysis for Assessing the Impact of Documentaries”, in *WIN (Workshop on Information in Networks)* New York. 2013

## OTHER WORK EXPERIENCE

**Citrix**, Bangalore, India

Software Engineer, NetScaler INFRA Team

Jul 2012 – Jul 2013

Authorization and content switching policy for NetScaler 10.1,

Real time document annotation and chat collaboration UI for Podio workspaces in Node.js

**Barclays Capital**, Singapore

Global Technology Analyst

May 2011 – Jul 2011

Enhanced 6 year old VB 6.0 software and documented it, which saved the team 1 week per month of work.

Developed C# based web application for deployment of scripts on OpenLink and Oracle.

Secured **4.77/5** with a performance grade of A in Final Appraisal.

**Global Venture Lab**, Jyväskylä, Finland

Lead Web Developer

Dec 2009 – Jan 2010

Prototyped the company portal for networking & project management of its global membership.

Developed & administered the company website, and coached the employees on its usage.

## ACADEMIC HONORS & AWARDS

*Certificate of Distinction, Coursera.org*

2012 – 2013

**Subjects:** Machine Learning, Social Network Analysis, Social and Economic Networks, and Introduction to Data Science

*Kishore Vaigyanik Protsahan Yojana Scholar*

2007– 2012

Indian Institute of Technology, Kharagpur

Most reputed scholarship for science students doing research in India

*Trisham Medal, Best Mathematician in School*

2007

Boys’ High School and College, Allahabad, India

Given to best mathematician in School. Secured 100% in mathematics in ISC board exams.

*3rd rank in Regional Mathematics Olympiad, Uttar Pradesh*

2006

*School Whiz Kid, Gold Medal*

2006

National Cyber Olympiad

For securing 19th rank nationally in National Cyber Olympiad.

## CAMPUS ACTIVITIES

**AIESEC**

President, AIESEC IIT Kharagpur Local Chapter

2011 – 2012

Led a local chapter of 70+ members,

Managed 2 major events related to corporate student interaction and social impact.