

Shubhanshu Mishra

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EDUCATION

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

Doctor of Philosophy (Ph.D.) in School of Information Sciences Aug 2013 –

Advisors: Jana Diesner & Vette Torvik

Working on thesis titled: *Information extraction from digital social trace data: applications in social media and scholarly data analysis*

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

Cumulative GPA: 3.86 / 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

Coursera

Oct 2012 –

Courses: Machine Learning, Social Network Analysis, Social and Economic Networks, Introduction to Data Science, Model Thinking

RESEARCH PROJECTS

School of Information Sciences, University of Illinois at Urbana-Champaign

Research Assistant

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

Supervisors: Vette Torvik

abel.lis.illinois.edu/legolas/, abel.lis.illinois.edu/gimli/

Research areas: Data Mining, Statistical Analysis, Bibliometrics

ConText - Tool for extracting and analyzing network data from text May 2014 –

Supervisors: Jana Diesner

<http://context.lis.illinois.edu/>

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

Entity Extractor using CRF and Deep Learning May 2014 –

Supervisors: Jana Diesner

<https://github.com/napsternxg/TwitterNER>

Research areas: NLP, Machine Learning, Deep Neural Networks

SAIL - Sentiment Analysis and Incremental Learning May 2014 – Aug 2015

Supervisors: Jana Diesner

<https://github.com/uiuc-ischool-scanr/SAIL>

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

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].

PERSONAL PROJECTS

| | |
|---|----------|
| <i>Deep Sequence Classification</i> | Jan 2016 |
| A deep learning based sequence classification model for text data. It uses a combination of word embeddings and convolution features over characters of each token. It is jointly trained to predict the boundary and category classes per token. https://github.com/napsternxg/DeepSequenceClassification | |
| <i>Flavor savor</i> | Feb 2015 |
| An online map based interface for suggesting nearby restaurants based on flavor popularity and writing reviews using hashtags. https://github.com/napsternxg/FlavorSharer | |
| <i>Facebook Group Visualizer</i> | Oct 2014 |
| A tool for temporal visualization of Facebook group time-lines with focus on identifying author, post and comment networks. http://shubhanshu.com/FacebookGroupVisual/index.html | |
| <i>ReadLater</i> | 2013 |
| A Google Chrome extension for storing unread pages for later viewing. Uses Google Chrome synchronized storage. 4 star rating and 8,000+ users on chrome store. https://github.com/napsternxg/ReadLater | |

PEER REVIEWED PUBLICATIONS

Collier DA, Mishra S, Houston DA, Hensley BO, and Hartlep ND. “Americans ‘support’ the Idea of Tuition-Free College: An Exploration of Sentiment and Political Identity Signals Otherwise.” in *Journal of Further and Higher Education*. Sep 2017

Mishra S and Diesner J, “Semi-supervised Named Entity Recognition in noisy-text”, in *2nd Workshop on Noisy User-generated Text (W-NUT) at COLING 2016*. Dec 2016

Mishra S and Torvik VI, “Quantifying Conceptual Novelty in the Biomedical Literature”, in *D-Lib Magazine* (also presented at WoSP workshop, JCDL 2016). Sep 2016

Mishra S, Diesner J, Byrne J, and Surbeck E, “Sentiment Analysis with Incremental Human-in-the-Loop Learning and Lexical Resource Customization”, in *ACM Hypertext*, Cyprus, Turkey. 2015

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

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 *iConference*, Berlin, Germany 2014

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

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|---|---------------------|
| 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. | |
| 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

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| <i>Kishore Vaigyanik Protsahan Yojana Scholar</i> | 2007– 2012 |
| Scholarship for science students doing research in India | |
| <i>3rd rank in Regional Mathematics Olympiad, Uttar Pradesh, India</i> | 2006 |

TEACHING

Teaching Assistant - Network Analysis, Summer '17

As part of the Information Science and Engineering Summer Program organized for Chinese students, sponsored by Global Education and Training (GET)

Teaching Assistant & Co-instructor - Data Mining Applications, Fall '16

Listed in Teachers Ranked as Excellent By Their Students!

Teaching Assistant - Foundations of Information Processing, Spring '17

**ACADEMIC
ROLES**

Reviewer for SNAM '16 and sub-reviewer for IC²S² (17), HyperText (16,17), SNAM '15, ICWSM (16,17), ECML PKDD '15, SM Society (15,17), COINS '15, SBP (15,17), and SocInfo '14.