

Srayan DATTA

PERSONAL DATA

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EDUCATION

- CURRENT** Doctoral student in COMPUTER SCIENCE AND ENGINEERING,
University of Michigan, Ann Arbor
| Advisor: Prof. Eytan ADAR
GPA: **4.0/4.0** (After 10th semester)
Relevant courses: Machine learning, Theory of Social and Technical Networks,
Advanced Artificial Intelligence and Algorithms
- AUGUST 2015** Master of Science in COMPUTER SCIENCE AND ENGINEERING,
University of Michigan, Ann Arbor
GPA: **4.0/4.0**
- JUNE 2013** Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING,
Indian Institute of Technology, Kharagpur
Thesis: "Measuring Information Spread through Links in Social Media"
| Advisor: Prof. Niloy GANGULY
GPA: **9.53/10.0**
CLASS RANK (B. Tech): 3
- JUNE 2009** Certificate from West Bengal Council of Higher Secondary Education (XII)
School: **Narendrapur Ramakrishna Mission Vidyalaya, Narendrapur**
FINAL PERCENTAGE: 90.5 % (Science: 98 %)
- JUNE 2007** Certificate from West Bengal Board of Secondary Education (X)
School: **Asansol Ramakrishna Mission High School, Asansol**
FINAL PERCENTAGE: 98.13 %
CLASS RANK: 1 (State Rank: 9)

PROFESSIONAL EXPERIENCE

- FALL 2017** Graduate Student Instructor
WINTER 2018 Data Structures and Algorithms (EECS 281)
University of Michigan
| Instructors: Prof. David PAOLETTI, Prof. Marcus DARDEN and Prof. Igor MARKOV
- FALL 2016** Graduate Student Research Assistant
WINTER, SUMMER 2017 School of Information, University of Michigan
| Adviser: Prof. Eytan ADAR
- SUMMER 2016** Data Science Intern at **Betaworks**, New York.
Team: Scalemodel | Supervisor: Gilad LOTAN

- WINTER 2016 Graduate Student Instructor
Introduction to Machine Learning (EECS 445)
University of Michigan
| Instructor: Prof. Jenna WIENS
- SUMMER, FALL 2015 Graduate Student Research Assistant
School of Information, University of Michigan
| Adviser: Prof. Eytan ADAR
- WINTER 2015 Graduate Student Instructor
Introduction to Machine Learning (EECS 445)
University of Michigan
| Instructor: Prof. Jenna WIENS
- SUMMER, FALL 2014 Graduate Student Research Assistant
School of Information, University of Michigan
| Adviser: Prof. Eytan ADAR
- SUMMER 2012 Software Engineering Intern at **Google**, Hyderabad.
Team: Dasher security | Supervisor: Rodney MARTIS
- SUMMER 2011 Intern at **Indian Statistical Institute**, Kolkata
Project title: "An Approximation Algorithm for Guard Placement
in Cluster Connecting Problem in a 1.5 Dimensional Terrain"
| Supervisor: Prof. Subhas NANDY

PUBLICATIONS

1. Datta, Srayan, and Eytan Adar. "A generative model for scientific concept hierarchies." *PloS one* 13.2(2018): e0193331.
2. Datta, Srayan and Eytan Adar. "COMMUNITYDIFF: Visualizing Community Clustering Algorithms." *Transactions of Knowledge Discovery and Data*, 12, 1, Article 11 (January 2018).
3. Datta, Srayan, Chanda Phelan and Eytan Adar. "Identifying Misaligned Inter-Group Links and Communities." *Proc. ACM Hum.-Comput. Interact.* 1, 2, Article 37 (November 2017).
4. Datta, Srayan, Ceren Budak and Daniel M. Romero. "From Local Popularity to Global Influence: A Computationally Effective Heuristic for Influence Maximization." *International Conference on Computational Social Science* (2016).
5. Adar, Eytan and Srayan Datta. "Building a Scientific Concept Hierarchy Database (SCHBASE)." *Association for Computational Linguistics* (2015).
6. Datta, Srayan. "Predicting Central Topics in a Blog Corpus from a Networks Perspective." *arXiv preprint arXiv:1405.2386* (2014).

ACADEMIC ACHIEVEMENTS AND SCHOLARSHIPS

- Ranked 9th in class X examination (2007) in my state (West Bengal), topper of my school.
- Awarded of NTSE (National Talent Search Examination) scholarship in the year 2007.
- Awarded Mamraj Agarwal Rashtriya Puraskar on the basis of my performance in the Madyamik (class X, 2007) examination.
- Eligible for KVPY (Kishore Vaigyanik Protsahan Yojana, Young Scientist Encouragement Program) in 2008.

- Participated in Indian National Chemistry Olympiad 2009 on the basis of my performance in NSEC-2008 (National Standard Examination in Chemistry).
- Awarded certificate of merit for being placed in 'state-wise top 1%' in National Standard Examination in Physics (NSEP) in the year 2008.
- Awarded the certificate for distinctive performance and received school topper medal in 11th National Science Olympiad 2008.

OTHER PROJECTS AND COMPETITIONS

- WINTER 2017 **Extracting and comparing Carbon Emission data for Environmental Social Governance (ESG).**
Adviser: Prof. Eytan Adar (*as part of a larger team*)
- FALL 2016 **Extracting Numerical Relations from News articles using Phrase Dependency Trees.**
Adviser: Prof. Eytan Adar
- FALL 2015 **Comparison of Non Convex Clustering Methods Based on Random Walk (Machine Learning Course project)**
Collaborators: Abhilash DIGHE, Vatshank CHATURVEDI
- WINTER 2014 **Replication and extension of “ S. A. Macskassy, ‘Using Graph-based Metrics with Empirical Risk Minimization to Speed Up Active Learning on Networked Data,’ in Proceedings of the 15th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, ser. KDD ’09”**
- SPRING 2013 **“Understanding of Viral Videos”**
Collaborators: Rhicheck PATRA, Arohi KUMAR | Supervisor: Parantapa BHATTACHARYA
- SPRING 2013 **Twitminer: A Classifier to Differentiate between Sports and Politics Tweets as part of Twitminer competition organised by Indian Institute of Science**
Collaborator: Rhicheck PATRA
ALL INDIA RANK: 8 with 94.89% accuracy
- SPRING 2013 **Quoracle: A Plug-in to Show Best Yahoo Answers in Search-page as part of Yahoo Hackathon in Indian Institute of Technology, Kharagpur**
Collaborators: Arohi KUMAR, Chitresh SINHA, Rajesh RANJAN
- AUTUMN 2012 **Water Demarking: Removing Visible Dull and Distinct Watermarks**
Collaborator: Chitresh SINHA
- AUTUMN 2011 **Wikitravel Offline Search: An Offline Search Engine supporting Boolean Retrieval, Multiple Word Query and Short Summary Window as part of a group project**

COMPUTER SKILLS

Languages: Python, Java, C, C++, Javascript, PHP, HTML, MySQL
Platforms: Windows, Linux (Ubuntu and Fedora), Macintosh

EXTRA-CURRICULAR ACTIVITIES

1. I was the **Captain of Bengali Dramatics** at Nehru Hall of Residence, IIT Kharagpur (session 2012-2013). I regularly took part in elocution and drama in inter-hall competitions

for my hall. I have acted in gold and silver winning inter-hall Bengali dramas.

2. I was an active member of **Bengali Technology Dramatic Society (BTDS)** from 2009 to 2013 and have acted in several dramas.
3. I held the post of **Library Undersecretary** at Nehru Hall of Residence, IIT Kharagpur during the academic session 2010-2011.
4. I am a member of **Phi Kappa Phi** and **Tau Beta Pi** Engineering Honour Societies.