Hridoy Sankar Dutta

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LINKS	**Website:** https://hridaydutta123.github.io
	Github: https://github.com/hridaydutta123/
	DBLP: http://dblp.uni-trier.de/pers/hd/d/Dutta:Hridoy_Sankar
	Google Scholar: https://scholar.google.co.in/citations?user=4UrQjwUAAAAJ&hl=en
	Hackerearth: https://www.hackerearth.com/@hridaydutta123
	LinkedIn: https://www.linkedin.com/in/hridoy-sankar-dutta-18448a63/?ppe=1

EDUCATION

PhD in Computer Science and Engineering   2017 - Present
Indraprastha Institute of Information Technology Delhi (IIIT-D), India

- Thesis Title: *Malicious Activities in Online Social Networks*
- Supervisor: Dr. Tanmoy Chakraborty, Assistant Professor & Ramanujan Fellow, Indraprastha Institute of Information Technology Delhi (IIIT-D), India

M.Tech in Computer Science and Engineering   2015 - 2017
National Institute of Technology Durgapur, West Bengal, India

- Thesis Title: *An offline crisis mapping system for large-scale natural disasters*
- Supervisor: Dr. Subrata Nandi, Associate Professor, Dept. of CSE, NIT Durgapur and Dr. Sujoy Saha, Assistant Professor, Dept. of CSE, NIT Durgapur
- CGPA of **9.15**/10 (Ranked 3rd) (May 2017)

B.Tech in Computer Science and Engineering   2009 - 2013
Institute of Science and Technology, Gauhati University, Assam, India

- Thesis Title: *Hierarchical Convergecasting with clustering and spanning tree generation*
- Supervisor: Dr. Sushanta Karmakar, Associate Professor, Dept. of CSE, Indian Institute of Technology Guwahati (IIT-G)
- Mentor: Dr. Sandip Chakraborty, Assistant Professor, Dept. of CSE, Indian Institute of Technology Kharagpur (IIT-KGP)
- CGPA of **9.17**/10 (May 2013)

High School - Shrimanta Shankar Academy, Guwahati (CBSE) - **82.80%**   2007 - 2009
Secondary School - Hindustani Kendriya Vidyalaya (CBSE) - **81.00%**   2000 - 2007

JOB EXPERIENCE

Assistant Project Engineer, IIT Guwahati   Aug, 2014 - Apr, 2015
Developing Text to Speech System in Assamese Language Phase II.

OTHER EXPERIENCES

Student Researcher, ForkIT
Mentored by Dr. Subrata Nandi, Dept. of CSE, NIT Durgapur &
Dr. Sujoy Saha, Dept. of CSE, NIT Durgapur   May, 2016 - June, 2017
An End-to-end system to generate Offline Crisis maps

Summer Research Intern in DISARM Group, NIT Durgapur
Mentored by Dr. Subrata Nandi, Dept. of CSE, NIT Durgapur   May, 2016 - July, 2016
Developed web application Admin Dashboard for Master Control Station at the time of disaster. Django, a python web framework was used to develop the application.

Winter Research Intern in DISARM Group, NIT Durgapur
Mentored by Dr. Subrata Nandi, Dept. of CSE, NIT Durgapur   Dec, 2015 - Jan, 2016
Developed an Oppurtunistic Network for Android Application.

Project Intern, IIT Guwahati
Mentored by Dr. Sushanta Karmakar, Dept. of CSE, IIT Guwahati   Jan, 2013 - June, 2013
Worked on the Research Topic "Hierarchical topology adaptation for distributed convergecast applications"

Summer Trainee, NEEPCO
Mentored by Subhash Kalita, Manager(System)   June, 2012 - July, 2012
Developed a e-File Sharing System among the users of the organization. PHP language was used to develop the application.

Summer Trainee, AMTRON
Mentored by SD & P Divn., AEDC Ltd.   June, 2011 - July, 2011
MS Access Form Management.

Technical Skills   **Strongest Areas** - Social Network Analysis, Natural Language Processing, Data Mining, Machine Learning, Data Structures & Algorithms, Web Technology, System Programming
Languages - Python, Java, PHP, C++, UNIX Shell, HTML, CSS, JS, Ajax, Perl
Frameworks - Twitter API Clients, NLTK, Sklearn, Gensim, Django, Flask, Phonegap
Tools - Git, Android Studio, Adobe Photoshop, JUnit, LATEX
Databases - MySQL, SQLite, MongoDB

Publications
- Seongjae Choi, Kyeongpil Kang, Sungbok Shin, **Hridoy Sankar Dutta**, Tanmoy Chakraborty, Jaegul Choo and Noseong Park. Detecting Cyberattack Signals from Social Media via Label Propagation Filtering, In *12th International AAAI Conference on Web and Social Media* (ICWSM), Munich, Germany, June 12-14, 2019. **(Submitted)**

- Deepak Thukral, **Hridoy Sankar Dutta**, Vikram Goyal, Tanmoy Chakraborty. Catch Me if You Can: Spotting Collusive Users Involved in Blackmarket Following Services, In *Thirty-Third AAAI Conference on Artificial Intelligence* (AAAI), Hawaii, USA, Jan 27-Feb 1, 2019. **(Submitted)**

- Aditya Chetan, Brihi Joshi, **Hridoy Sankar Dutta**, Tanmoy Chakraborty. CoReRank: Ranking to Detect Users Involved in Blackmarket-based Collusive Retweeting Activities, In *Proceedings of the Twelfth ACM International Conference on Web Search and Data Mining* (WSDM), Melbourne, Australia, Feb 11-15, 2019. **(Submitted)**

- Joyita Chakraborty, Dinesh Pradhan, **Hridoy Sankar Dutta**, Subrata Nandi, and Tanmoy Chakraborty. On Good and Bad Intentions behind Anomalous Citation Patterns among Journals in Computer Sciences. arXiv preprint arXiv:1807.10804, 2018.

- **Hridoy Sankar Dutta**, Aditya Chetan, Brihi Joshi, Tanmoy Chakraborty. Retweet Us, We Will Retweet You: Spotting Collusive Retweeters Involved in Blackmarket Services, *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (ASONAM), Barcelona, Spain, Aug 28-31, 2018. (Acceptance rate: 15%)

- Partha Sarathi Paul, **Hridoy Sankar Dutta**, Bishakh Chandra Ghosh, Krishnandu Hazra, Sandip Chakraborty, Sujoy Saha, Subrata Nandi. Offline crisis mapping by opportunistic dissemination of crisis data after large-scale disasters, In *Proceedings of the Second ACM SIGSPATIAL International Workshop on the Use of GIS in Emergency Management*, p. 9. ACM, California, United States, October 31-November 3, 2016.

- Sandip Chakraborty, Suchetana Chakraborty, Sushanta Karmakar, **Hridoy Sankar Dutta**. Hierarchical topology adaptation for distributed convergecast applications, In *Proceedings of the 29th Annual ACM Symposium on Applied Computing*, pp. 405-407. ACM, Gyeongju, Korea, March 24-28, 2014.

CERTIFIED
COURSES

- **JAVA** Programming Course at InfoConnect Solutions   Aug, 2011 - Feb, 2012

SELECTED
PROJECTS

All projects are available on git : https://www.github.com/hridaydutta123
- **Collusive User Detection Tool** - A tool for detection of collusive users in Online Social Networks.
- **Awesome Twitter Tools** - A curated list of tools, datasets, research papers and browser extensions related to Twitter.
- **Opportunistic Network for Android Application** - Implementation of Communication Medium for Challenge Network Scenario.
- **Offline Master Control Station** - Implementation of reliable and effective data transfer from oppurtunistic network and tool for analyzing behaviour of data captured in Oppurtunistic Networks.
- **Designing TTS System in Assamese and Manipuri Languages** - It involves building systems for synthesizing natural speech in native Assamese and Manipuri tone from a given text and building user friendly GUIs for the common people.
- **MapDisarm** - Offline efficient transfer of OSM Map tiles among various devices without internet connectivity for gps based recovery in Oppurtunistic network.
- **e-File Sharing System** - Complete file management system for NEEPCO organization.

ACHIEVEMENTS
AND AWARDS

- Grand Challenge Grade **A** winner where smart & embedded device innovators around the world vied for the top spot. Organised by International Symposium Embedded Devices, 2016 at IIT Patna.
- Came **1st Runners Up** in Startup Weekend, Kolkata (5-7th August, 2016).
- Media Coverage of our Group in a local daily: http://aamarkatha.com/?p=1121#.WMzJSszEghE.whatsapp
- Won **3rd Prize in Coding Competition** at Techniche 2012 (IIT Guwahati Technical Fest Coding Event).
- Attended NASSCOM Product Conclave-2016 as Student Researcher of ForkIT
- Rank of **3** in Master Of Technology.
- Rank of **7** in Bachelor Of Technology.
- Secured 10/10 SGPA in M.Tech(3rd & 4th Semester)
- Secured 10/10 SGPA in B.Tech(6th,7th & 8th Semester)
- GATE Qualified (2016) **Gate Score : 488 (Rank: 4370)**
- GATE Qualified (2015) **Gate Score : 441 (Rank: 6675)**
- Recipient of GATE Scholarship (2014) **Gate Score : 582 (Rank: 2139)**
- Passed A level examination of National Cadet Crops (NCC).
- Winner of Counter Strike Gaming Competition at Technoshine 2015, Technoshine 2016, Aarohan 2017 and Rectasy 2017 held at NIT Durgapur.

EVENTS &
WORKSHOPS
ATTENDED

- Workshop on Complex and Social Networks, IIT Kharagpur (2017)
- NASSCOM Product Conclave, Bangalore (2016)

HOBBIES

Handling Systems, Trying Open-Source Softwares, Playing Computer Games.

MORE

Please visit https://hridaydutta123.github.io