

# Hriday 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:Hriday\\_Sankar](http://dblp.uni-trier.de/pers/hd/d/Dutta:Hriday_Sankar)  
**Google Scholar:** <https://scholar.google.co.in/citations?user=4UrQjwUAAAAJ&hl=en>  
**LinkedIn:** <https://www.linkedin.com/in/hriday-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

**Assistant Project Engineer, IIT Guwahati**

Aug, 2014 - Apr, 2015

## EXPERIENCE

Project Title: *Developing Text to Speech System in Assamese Language Phase II*

Supervisor: **Dr. S.R.M.Prasanna**, Professor, Dept. of EEE, Indian Institute of Technology, Guwahati (IIT-G)

## OTHER

**Student Researcher, ForkIT**

## EXPERIENCES

*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 Opportunistic 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"

## PUBLICATIONS

(Type-A/A\* conferences based on CORE ranking are highlighted in blue)

- Deepak Thukral, **Hridoy Sankar Dutta**, Vikram Goyal, Tanmoy Chakraborty. Catch Me if You Can: Spotting Collusive Users Involved in Blackmarket Following Services. (**Under Review**)
- Partha Sarathi Paul, Bishakh Chandra Ghosh, **Hridoy Sankar Dutta**, Kingshuk De, Arka Prava Basu, Prithviraj Pramanik, Sujoy Saha, Sandip Chakraborty, Niloy Ganguly, Subrata Nandi. CRIMP: Here Crisis Mapping Goes Offline. (**Under Review**)
- 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. ACM. (Acceptance Rate: 16%)
- 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 opportunistic network and tool for analyzing behaviour of data captured in Opportunistic 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 Opportunistic network.

ACHIEVEMENTS AND AWARDS	<ul style="list-style-type: none"> <li>• Grand Challenge Grade <b>A</b> winner where smart &amp; embedded device innovators around the world vied for the top spot. Organised by International Symposium Embedded Devices, 2016 at IIT Patna.</li> <li>• Came <b>1st Runners Up</b> in Startup Weekend, Kolkata (5-7th August, 2016).</li> <li>• Media Coverage of our Group in a local daily: <a href="http://aamarkatha.com/?p=1121#.WMzJSszEghE.whatsapp">http://aamarkatha.com/?p=1121#.WMzJSszEghE.whatsapp</a></li> <li>• Won <b>3rd Prize in Coding Competition</b> at Techniche 2012 ( IIT Guwahati Technical Fest Coding Event ).</li> <li>• Attended NASSCOM Product Conclave-2016 as Student Researcher of ForkIT</li> <li>• Rank of <b>3</b> in Master Of Technology.</li> <li>• Rank of <b>7</b> in Bachelor Of Technology.</li> <li>• Secured 10/10 SGPA in M.Tech(3rd &amp; 4th Semester)</li> <li>• Secured 10/10 SGPA in B.Tech(6th,7th &amp; 8th Semester)</li> <li>• GATE Qualified (2016) <b>Gate Score : 488 (Rank: 4370)</b></li> <li>• GATE Qualified (2015) <b>Gate Score : 441 (Rank: 6675)</b></li> <li>• Recipient of GATE Scholarship (2014) <b>Gate Score : 582 (Rank: 2139)</b></li> <li>• Passed A level examination of National Cadet Corps (NCC).</li> <li>• Winner of Counter Strike Gaming Competition at Technoshine 2015, Technoshine 2016, Aarohan 2017 and Rectasy 2017 held at NIT Durgapur.</li> </ul>
EVENTS & WORKSHOPS ATTENDED	<ul style="list-style-type: none"> <li>• Amazon Research Days, Bangalore (2018)</li> <li>• Young Scientist Conference at India International Science Festival (2018)</li> <li>• Workshop on Complex and Social Networks, IIT Kharagpur (2017)</li> <li>• NASSCOM Product Conclave, Bangalore (2016)</li> </ul>
TECHNICAL SKILLS	<p><b>Strongest Areas</b> - Social Network Analysis, Natural Language Processing, Data Mining, Machine Learning, Data Structures &amp; Algorithms, Web Technology, System Programming</p> <p><b>Languages</b> - Python, Java, PHP, C++, UNIX Shell, HTML, CSS, JS, Ajax, Perl</p> <p><b>Frameworks</b> - Twitter API Clients, NLTK, Sklearn, Gensim, Django, Flask, Phonegap</p> <p><b>Tools</b> - Git, Android Studio, Adobe Photoshop, JUnit, <math>\text{\LaTeX}</math></p> <p><b>Databases</b> - MySQL, SQLite, MongoDB</p>
HOBBIES	Handling Systems, Trying Open-Source Softwares, Playing Computer Games.
MORE	Please visit <a href="https://hridaydutta123.github.io">https://hridaydutta123.github.io</a>