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
LinkedIn: https://www.linkedin.com/in/hridoy-sankar-dutta-18448a63/?ppe=1

EDUCATION

PhD in Computer Science and Engineering   Aug 2017 - Present
Indraprastha Institute of Information Technology Delhi (IIIT-D), India
- Thesis Title: *Detecting and Reasoning Collusive Activities in Online Media*
- Supervisor: **Dr. Tanmoy Chakraborty**, Assistant Professor & Ramanujan Fellow, Dept. of CSE, 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

PAPERS UNDER REVIEW
- Udit Arora, **Hridoy Sankar Dutta**, Brihi Joshi, Aditya Chetan, Tanmoy Chakraborty. Analyzing and Detecting Collusive Users Involved in Blackmarket Retweeting Activities.
- Deepak Thukral, **Hridoy Sankar Dutta**, Vikram Goyal, Tanmoy Chakraborty. Catch Me if You Can: Spotting Collusive Users Involved in Blackmarket Following Services.
- 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.
- 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.
- 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.

ACCEPTED / PUBLISHED PAPERS	(Type-A/A* conferences based on CORE ranking are highlighted in blue.) • **Hridoy Sankar Dutta**, Aditya Chetan, Brihi Joshi, Tanmoy Chakraborty. CoReRank: Ranking to Detect Users Involved in Blackmarket-based Collusive Retweeting Activities. *12th ACM International Conference on Web Search and Data Mining (WSDM)*, Melbourne, Australia, Feb 11-15, 2019. (Acceptance rate: 16%) • **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, *2nd ACM SIGSPATIAL International Workshop on the Use of GIS in Emergency Management*, California, United States, Oct 31-Nov 3, 2016. • Sandip Chakraborty, Suchetana Chakraborty, Sushanta Karmakar, **Hridoy Sankar Dutta**. Hierarchical topology adaptation for distributed convergecast applications, In *29th Annual ACM Symposium on Applied Computing*, Gyeongju, Korea, March 24-28, 2014.

JOB EXPERIENCE	**Assistant Project Engineer, IIT Guwahati**	Aug, 2014 - Apr, 2015

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 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"

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 • **Awesome Twitter Tools** - A curated list of awesome Twitter tools, libraries and resources. • **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.

ACHIEVEMENTS AND AWARDS

- Awarded Student Travel Grant to attend CODS COMAD 2019.
- 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 and 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

- ACM India Joint International Conference on Data Science and Management of Data (CoDS-COMAD 2019)
- Winter School on Artificial Intelligence, IIIT Delhi (2019)
- Amazon Research Days, Bangalore (2018)
- Young Scientist Conference at India International Science Festival (2018)
- Workshop on Complex and Social Networks, IIT Kharagpur (2017)
- NASSCOM Product Conclave, Bangalore (2016)

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

HOBBIES

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

REFERENCES

Dr. Tanmoy Chakraborty <tanmoy@iiitd.ac.in>, Asst. Professor, Dept. of CSE, IIIT Delhi

Dr. Sandip Chakraborty <sandipc@cse.iitkgp.ac.in>, Asst. Professor, Dept. of CSE, IIT Kharagpur

Dr. Subrata Nandi <subrata.nandi@cse.nitdgp.ac.in>, Assoc. Professor, Dept. of CSE, NIT Durgapur

Dr. Bibhash Sen <bibhash.sen@cse.nitdgp.ac.in>, Assoc. Professor, Dept. of CSE, NIT Durgapur