

Hridoy Sankar Dutta

hridoyd@iiitd.ac.in / hridaydutta123@gmail.com • (+91)-8638189794 / (+91)-8135002680 • #3-E, Pink Enclave, Paltan Bazar, Behind Hotel Starline, Guwahati, Assam, India - 781008

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: Prof. Subrata Nandi, 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% Secondary School - Hindustani Kendriya Vidyalaya (CBSE) - 81.00%

2007 - 2009

2000 - 2007

REVIEW

- PAPERS UNDER Hridoy Sankar Dutta, Tanmoy Chakraborty. Blackmarket-driven Collusion among Retweeters Analysis, Detection and Characterization, IEEE Trans. Information Forensics and Security. (Major Revision)
 - Hridoy Sankar Dutta, Siva Charan Reddy Gangireddy, Tanmoy Chakraborty. Collusion on the web: A Survey.
 - 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 Filter-
 - 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.

Јов

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

Visiting Researcher, Cardiff University

Experiences

Mentored by Prof. Pete Burnap, Professor of Data Science & Cybersecurity School of Computer Science and Informatics

Mar, 2019

Student Researcher, ForkIT

Mentored by Prof. 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 Prof. 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 Prof. Subrata Nandi, Dept. of CSE, NIT Durgapur Developed an Oppurtunistic Network for Android Application.

Dec, 2015 - Jan, 2016

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.

AND AWARDS

- ACHIEVEMENTS 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

- Academic Research Summit 2019 on Data Science and AI, IIT Madras, Chennai (2019)
- 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

Personal

Date of Birth: 12th September, 1991

Details

Gender: Male Nationality: Indian

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

Dr. Bibhash Sen

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