# Hridoy Sankar Dutta

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Website: https://hridaydutta123.github.io Links

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% Secondary School - Hindustani Kendriya Vidyalaya (CBSE) - 81.00%

2007 - 2009

2000 - 2007

# REVIEW

- PAPERS UNDER 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.

# 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

#### 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 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

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