Hridoy Sankar Dutta (UK ILR Holder)

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EXPERIENCE & EDUCATION

Lecturer in Cybersecurity, Deakin University — July 2024 - Present

Research Associate, University of Cambridge — June 2021 - June 2024
Cambridge Cybercrime Centre
University of Cambridge

Research Assistant, University of Cambridge — February 2021 - June 2021
Cambridge Cybercrime Centre
University of Cambridge

PhD in Computer Science and Engineering — August 2017 - September 2021
Indraprastha Institute of Information Technology Delhi (IIIT-D)
- Thesis Title: *Detecting and reasoning collusive activities in online media platforms.*

SELECTED RESEARCH PAPERS & PROFESSIONAL SERVICES

See Google Scholar list at `https://scholar.google.co.in/citations?user=4UrQjwUAAAAJ&hl=en`.

- **Hridoy Sankar Dutta** and Yanna Papadodimitraki. Backlinks for Sale: A First Look into Marketplaces Selling Wikipedia Backlinks *12th Annual Wiki Workshop (WikiWorkshop 2025)*, May 21 – 22, 2025.

- Luis Adán Saavedra del Toro, **Hridoy Sankar Dutta**, Alastair Beresford and Alice Hutchings. Appsolutely Modded: The rift between modded app market operators and original developers. *ACM ASIA Conference on Computer and Communications Security (ACM ASIACCS 2025)*, August 25 – 29, 2025, Ha Noi, Vietnam.

- Luis Adán Saavedra del Toro, **Hridoy Sankar Dutta**, Alastair Beresford and Alice Hutchings. ModZoo: A Large-Scale Study of Modded Android Apps and their Markets, *APWG Symposium on Electronic Crime Research (eCrime 2024)*, September 24 – 26, 2024, Boston, Massachusetts, USA.

- **Hridoy Sankar Dutta**, Vishal Raj Dutta, Aditya Adhikary, Tanmoy Chakraborty. HawkesEye: Detecting Fake Retweeters using Hawkes Process and Topic Modeling, *IEEE Trans. Information Forensics and Security (TIFS)*. (Impact Factor: 6.3)

- **Hridoy Sankar Dutta**, Nirav Diwan, Tanmoy Chakraborty. Weakening the Inner Strength: Spotting Core Collusive Users in YouTube Blackmarket Network, *16th International AAAI Conference on Web and Social Media (ICWSM)*. vol. 16, pp. 147-158. 2022.

- **Hridoy Sankar Dutta**, Mayank Jobanputra, Himani Negi, Tanmoy Chakraborty. Detecting and Analyzing Collusive Entities on YouTube, *ACM Transactions on Intelligent Systems and Technology (TIST)* 12, no. 5 (2021): 1-28.(Impact Factor: 7.2)

- **Hridoy Sankar Dutta** and Tanmoy Chakraborty. Blackmarket-driven Collusion among Retweeters – Analysis, Detection and Characterization. *IEEE Transactions on Information Forensics and Security (TIFS)*. (Impact Factor: 6.3)

Reviewer: SIGIR, PAKDD, SDM, WSDM, IJCAI, CIKM, WebConf, HyperText.

DATASETS

- **Hridoy Sankar Dutta**. YT-30M: A multi-lingual multi-category dataset of YouTube comments.
HuggingFace downloads: 236, Industry adoption: ActiveFence, USA

- **Hridoy Sankar Dutta,** Udit Arora and Tanmoy Chakraborty . ABOME: A Multi-platform Data Repository of Artificially Boosted Online Media Entities.
Zenodo downloads: 303

OPEN-SOURCE CONTRIBUTIONS

See GitHub profile at `https://tinyurl.com/hsd-github`.

- **The YouTube Scraper** — Tool to download YouTube video descriptions and comments without using the YouTube API. *(160+ stars, 25+ forks)*

- **Python BiReWire** — Bipartite graph randomization in Python using BiReWire

- **Awesome Twitter Tools** — A curated list of Twitter tools and resources. *(200+ stars, 25+ forks)*

INTERESTS AND SKILLS

- **Interests:** Data-driven cybersecurity, Cybercrime, Social network safety, LLM Safety.
- **Operating systems**: GNU/Linux; **Tools**: Python, SQL, Deep Learning (Graphs), GitHub.

ACHIEVEMENTS AND AWARDS

- Wiseman Prize 2023, Department of Computer Science and Technology, University of Cambridge.
- DAAD AInet fellowship 2023.
- Rising Star in Data Science by the Center for Data and Computing (CDAC), University of Chicago.