Department of Computer Science
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Yash Vekaria

Research Interests

Web Security & Privacy; Ad-fraud; Internet Measurements; Web Tracking; Applied Machine Learning.

Current Ongoing Research

My research is aimed at studying the caveats in online advertisement ecosystem.

Ad Inventory Fraud: Building on the recent work, this one focuses to measure perceptions of ad-tech entities (publishers, ad-exchanges and brands) towards the Ad Inventory Fraud at large-scale through vulnerability notifications.

Problematic Ads on Social Media: The objective of this work is to detect and study the problematic ads run on social media platforms like Twitter through an automated audit.

Employment

2021-Present University of California, Davis, USA, Graduate Student Researcher

Advisor: Prof. Zubair Shafiq

Summer 2022 Max Planck Institute für Informatics, Saarbrücken, Germany, Visiting Re-

search Fellow

Advisor: Prof. Savvas Zannettou

Spring 2022 University of California, Davis, USA, Teaching Assistant, ECS 152A

Professor: Prof. Zubair Shafiq

2020–21 Innovaccer, Data Analyst

2019 Innovaccer, Decision Science Intern

2017–19 The LNMIIT, India, Teaching Assistant

2017 National Ilan University, Taiwan, Student Exchange Al Intern

Education

2021–Present Ph.D. in Computer Science, 4.00/4.00

University of California, Davis

2016–20 **B.Tech. in Computer Science**, *9.04/10.00*

The LNM Institute of Information Technology (LNMIIT), India.

Honors & Awards

2016–2018 **Merit Scholarships**, *The LNM Institute of Information Technology, India* Awarded to Top 5% students with GPA greater than 9.

2019 Spot Award, Innovaccer, India

Quarterly Award for optimization of data model from 10 hrs to 3 hrs.

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Python, SQL, Network Measurements, Data Scraping, Data Science and ML, Text processi	Pvthon.	SQL.	Network N	Measurements.	Data	Scraping.	Data	Science	and ML.	. Text	processi	ng
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- arXiv The Inventory is Dark and Full of Misinformation: Understanding the Abuse
- 2022 of Ad Inventory Pooling in the Ad-Tech Supply Chain

Yash Vekaria, Rishab Nithyanand, Zubair Shafiq *Under Submission, 2022*

- WebSci Differential Tracking Across Topical Webpages of Indian News Media
 - 2021 **Yash Vekaria***, Vibhor Agarwal*, Pushkal Agarwal, Sangeeta Mahapatra, Sakthi Balan Muthiah, Nishanth Sastry, Nicolas Kourtellis (*first co-authors) 13th ACM Web Science Conference, 2021
- ICWSM Under the Spotlight: Web Tracking in Indian Partisan News Websites
 - 2021 Vibhor Agarwal*, Yash Vekaria*, Pushkal Agarwal, Sangeeta Mahapatra, Sakthi Balan Muthiah, Nishanth Sastry, Nicolas Kourtellis (*first co-authors)
 15th International AAAI Conference on Web and Social Media (ICWSM), 2021
 Acceptance rate: 22.4% (30/134)
 - RCIS A Metadata-based Event Detection Method using Temporal Herding Factor
 - 2021 and Social Synchrony on Twitter Data
 Nirmal Kumar Sivaraman, Vibhor Agarwal, Yash Vekaria, Sakthi Balan Muthiah
 15th International Conference on Research Challenges in Information Science (RCIS), 2021
- SocInfo Poster Acceptance Invitation: Event Detection in Twitter
 - 2019 Nirmal Kumar Sivaraman, Vibhor Agarwal, **Yash Vekaria**, Sakthi Balan Muthiah 11th International Conference on Social Informatics (SocInfo), 2019

Travel Grants

- 2022 22nd Privacy Enhancing Technologies Symposium (PETS)
- 2022 15th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec)
- 2021 42nd IEEE Symposium on Security and Privacy (S&P)
- 2021 34th IEEE Computer Security Foundations Symposium (CSF)

Teaching

- 2022 **Computer Networks (ECS 152A)**, *Teaching Assistant* University of California, Davis, USA
- 2019 **Data Structures & Algorithms**, *Teaching Assistant* The LNM Institute of Information Technology, India
- 2018 **Computer Organization & Architecture**, *Teaching Assistant*The LNM Institute of Information Technology, India
- 2017 **Computer Programming**, *Teaching Assistant*The LNM Institute of Information Technology, India

Invited Talks

2021 **Differential Tracking Across Topical Webpages of Indian News Media**The LNM Institute of Information Technology, India

Selected Media Coverage

Mar 2021 Tracking the Trackers (Open The Magazine), Ullekh NP, [Link]

References

Prof. Zubair Shafiq

Associate Professor, University of California, Davis

Email: zshafiq@ucdavis.edu

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Prof. Savvas Zannettou

Assistant Professor, TU Delft, Netherlands

Email: s.zannettou@tudelft.nl

Webpage: https://zsavvas.github.io

Prof. Sakthi Balan Muthiah

Associate Professor, The LNM Institute of Information Technology, India

Email: sakthi.balan@Inmiit.ac.in
Webpage: http://sakthibalan.in/

Dr. Nicolas Kourtellis

Research Scientist, Telefonica Research Labs, Spain

Email: nicolas.kourtellis@telefonica.com

Webpage: https://www.concordia-h2020.eu/nicolas-kourtellis/

Prof. Nishanth Sastry

Professor, University of Surrey, England

Email: n.sastry@surrey.ac.uk

Webpage: https://www.surrey.ac.uk/people/nishanth-sastry