# MSDS 485 Case Studies

## Module 1

Arora, Payal. 2019. “General Data Protection Regulation—A Global Standard? Privacy Futures, Digital Activism, and Surveillance Cultures in the Global South.” *Surveillance & Society* 17 (5): 717–25. <https://doi.org/10.24908/ss.v17i5.13307>.

Arora argues for a decolonized approach to data regulation that acknowledges the complex relations between surveillance, privacy, activism, and law for marginalized individuals and nations.

Reyes-Garciá, Victoria, Aien Tofighi-Niaki, Beau J Austin, Petra Benyei, Finn Danielsen, Álvaro Fernández-Llamazares, Aditi Sharma, Ramin Soleymani-Fard, and Maria Tengö. 2022. “Data Sovereignty in Community-Based Environmental Monitoring: Toward Equitable Environmental Data Governance.” *Bioscience* 72, no. 8: 714–17. <https://doi.org/10.1093/biosci/biac048>.

Steen, R Grant, Arturo Casadevall, and Ferric C Fang. 2013 “Why Has the Number of Scientific Retractions Increased?” *PloS One* 8, no. 7: e68397–e68397. https://doi.org/10.1371/journal.pone.0068397.

## Module 2

#### Case Study: India

Vasudevan, Varun, Abeynaya Gnanasekaran, Varsha Sankar, Siddarth A Vasudevan, and James Zou. 2021. “Disparity in the Quality of COVID-19 Data Reporting across India.” *BMC*  *Public Health* 21 (1): 1211.

#### Case Study: US

Eichensehr, Kristen, ed. 2021. “Government Agencies and Private Companies Undertake Actions to Limit the Impact of Foreign Influence and Interference in the 2020 U.S. Election.” *The*  *American Journal of International Law* 115 (2): 309–17.

#### Case Study: UK

Deloitte. 2017. *Under the Spotlight: Data Integrity in the Life Sciences.*

[https://www2.deloitte.com/content/dam/Deloitte/uk/Documents/life-sciences-health-](https://www2.deloitte.com/content/dam/Deloitte/uk/Documents/life-sciences-health-care/deloitte-uk-data-integrity-report.pdf) care/deloitte-uk-data-integrity-report.pdf.

### Case Study: US Tribal Lands

Maher, Savannah. 2021. “Were Tribal Government COVID Relief Funds Fairly Distributed?” *NPR*  *Marketplace*, October 21, 2021. [https://www.marketplace.org/2021/10/21/were-tribal-](https://www.marketplace.org/2021/10/21/were-tribal-government-covid-relief-funds-fairly-distributed/) government-covid-relief-funds-fairly-distributed/.

A report that aired on NPR about inequitable distribution of COVID relief funds among U.S. tribal administrations because of variable data availability and how the data were counted. The link directs to both the playable recording of the broadcast and the text article.

## Module 3

Amanpour and Company. 2023. “Godfather of AI” Geoffrey Hinton Warns of the ‘Existential

Threat’ of AI.” May 9, 2023. YouTube Video, 18’8”.

<https://www.youtube.com/watch?v=Y6Sgp7y178k>

“Geoffrey Hinton, considered the godfather of Artificial Intelligence, made headlines with his recent departure from Google. He quit to speak freely and raise awareness about the risks of AI. For more on the dangers and how to manage them, Hinton joins Hari Sreenivasan.”

## Module 4

### Case Study: India

Hariharan, Sindhu. 2021. “India Fails in Cybersecurity Literacy Test.” *The Times of India*, April 6, 2021. [https://timesofindia.indiatimes.com/business/india-business/india-fails-in-](https://timesofindia.indiatimes.com/business/india-business/india-fails-in-cybersecurity-literacy-test-study/articleshow/81901542.cms) cybersecurity-

Where does India rank relative to other nations in personal online security?

### Case Study: Middle East

Moreno-Almeida, Cristina, and Shakuntala Banaji. 2019. “Digital Use and Mistrust in the

Aftermath of the Arab Spring: Beyond Narratives of Liberation and Disillusionment.”

*Media, Culture & Society* 41 (8): 112541. <https://doi.org/10.1177/0163443718823143.>

How has digital trust evolved in five “Arab Spring” countries?

### Case Study: Australia

Bunker, Deborah. 2020. “Who Do You Trust? The Digital Destruction of Shared Situational Awareness and the COVID-19 Infodemic.” *International Journal of Information*  *Management* 55 (December): 102201. <https://doi.org/10.1016/j.ijinfomgt.2020.102201>. An Australian researcher looks at media and global trust in the wake of the COVID-19 pandemic.

## Module 5

Katuska, John T. 2018. “Wearing Down HIPAA: How Wearable Technologies Erode Privacy

Protections.” The Journal of Corporation Law 44 (2): 385–401.

Mandl, Kenneth D., and Eric D. Perakslis. 2021. “HIPAA and the Leak of ‘Deidentified’ EHR

Data.” The New England Journal of Medicine 384 (23): 2171–73.

<https://doi.org/10.1056/NEJMp2102616.>

Yaraghi, Niam, and Ram D. Gopal. 2018. “The Role of HIPAA Omnibus Rules in Reducing the

Frequency of Medical Data Breaches: Insights From an Empirical Study.” *The*

*Milbank Quarterly* 96 (1): 144–66. <https://doi.org/10.1111/1468-0009.12314.>

Bondre, Ameya, Soumitra Pathare, and John A. Naslund. 2021. “Protecting Mental Health Data

Privacy in India: The Case of Data Linkage With Aadhaar.” *Global Health Science*

*and Practice* 9 (3): 467–80. <https://doi.org/10.9745/GHSP-D-20-00346.>

## Module 6

Appel, Gil, Juliana Neelbauer, and David A. Schweidel. 2023. “Generative AI Has an Intellectual Property Problem.” *Harvard Business Review,* April 7, 2023. <https://hbr.org/2023/04/generative-ai-has-an-intellectual-property-problem>

Rogin, Ali, and Andrew Corkery. 2023. “Why Artificial Intelligence is a Central Dispute in the Hollywood Strikes.” PBS, September 2, 2023/ <https://www.pbs.org/newshour/show/why-artificial-intelligence-is-a-central-dispute-in-the-hollywood-strikes>

Narayana, D. et al. 2022. “Cybersecurity in India.” [Reading will be available in the future]

## Module 7

Yazici, Ilkay Melek, and Mehmet S. Aktas. 2022. “A Novel Visualization Approach for Data

Provenance.” *Concurrency and Computation* 34 (9), e6523.

<https://doi.org/10.1002/cpe.6523>.

This article talks about data provenance in the context of big data for scientific research. It explores several visualization types along with some algorithms and code for tracking data. Read the first four pages through 3.1, then explore the remaining visualizations and code as you wish.

Keller, Sallie Ann, Stephanie S. Shipp, Aaron D. Schroeder, and Gizem Korkmaz. 2020. “Doing Data Science: A Framework and Case Study.” *Harvard Data Science Review*, 2 (1). Last Updated June 2022. <https://hdsr.mitpress.mit.edu/pub/hnptx6lq/release/10.>

## Module 8

### Case Study: Ukraine/Russia

Przetacznik, Jakub, with Simona Tarpova. 2022. “Russia’s War on Ukraine: Timeline of Cyber-

Attacks.” Briefing before European Parliament. European Parliamentary Research

Service. June 2022.

https://www.europarl.europa.eu/RegData/etudes/BRIE/2022/733549/EPRS\_BRI(20223

549\_EN.pdf.

### Case Study: India

Biyani, Neeti, Andrei Robachevsky, and Prateek Waghre. 2022. “Internet Impact Brief: India

CERT-In Cybersecurity Directions 2022.” *Internet Society*.

https://www.internetsociety.org/resources/doc/2022/internet-impact-brief-india-cert-

in-cybersecurity-directions-2022/.

#### 

### Case Study Various (incl. Ukraine, Syria, U.S.)

Carley, Kathleen M. 2020. “Social Cybersecurity: An Emerging Science.” *Computational and*

*Mathematical Organization Theory*26 (December): 365–81.

https://doi.org/10.1007/s10588-020-09322-9.

## Module 9

### Case Study: Latin America

Harrison, Chase, and Jon Orbach. 2022. “Explainer: Crypto in Latin America.” AS/COA. May 13,

2022. <https://www.as-coa.org/articles/explainer-crypto-latin-america>.

## Module 10

### Case Study: Transportation Industry (Atlanta, GA, U.S.)

Atlanta Regional Commission. 2019. *Data Governance Best Practices and Recommendations*

*Report: Transportation System Management and Operations (TSMO) Vision and*

*Regional Intelligent Transportation Systems (ITS) Architecture Update*. May 24, 2019.

https://cdn.atlantaregional.org/wp-content/uploads/data-governance-best-

practices.pdf.

A white paper on data governance best practices for the Atlanta regional transportation industry.

### Case Study: India

Ministry of Electronics and Information Technology. 2022. National Data Governance

Framework Policy (draft). https://www.meity.gov.in/content/draft-national-data-

governance-framework-policy.

This website contains the downloadable document.

### Case Study: Asia-Pacific

Goodman, Matthew P. 2021. “Governing Data in the Asia-Pacific.” *Center for Strategic and*  *International Studies*, April 21, 2021. [https://www.csis.org/analysis/governing-data-asia-](https://www.csis.org/analysis/governing-data-asia-pacific) pacific.

An overview of U.S.-Asia-Pacific data governance from CSIS.