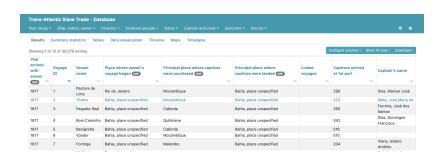
DATA ETHICS

Data Analysis for Journalism and Political Communication (Spring 2024)

Prof. Bell

BOUIE, "QUANTIFYING THE PAIN OF SLAVERY"



Go to SlaveVoyages.org and spend a few minutes exploring the data. Think about the implications of collecting and sharing this data. What are some of the benefits of sharing this data? What are some of the risks? Do the benefits outweigh the harms?

TUSKEGEE SYPHILIS STUDY



 Summarizes ethical principles and guidelines for conducting research with human subjects



- Summarizes ethical principles and guidelines for conducting research with human subjects
- Codified into law as the "Common Rule", which covers all federally-funded research

Respect for Persons

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Justice

Groups who bear the burden of research should also be the beneficiaries of that research.

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- Selection of subjects
 - ► Do not select favored subjects for highly beneficial research and unfavored subjects for risky research

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- There are financial benefits that accrue to the companies, not the research subjects

CASE STUDIES

- Home DNA Testing
- Crisis Text Line
- Oiversity in Faces (DiF) dataset



CASE STUDIES

- What are the relevant ethical principles and practices in this case?
- In what ways/why are there concerns about a violation of ethical principles in this case?
- What are some ways that data could have been used more ethically in this case?

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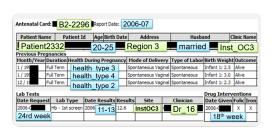
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- De-identification is the process of removing direct and indirect identifiers

Remove direct identifiers

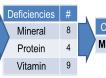


- Remove direct identifiers
- Aggregate or reduce the precision of a variable
 - Generalize the meaning of categories

SubjlD	Region	RegGen
2253	21239	212
2254	21238	212
2255	21135	211
2256	06058	060

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 - Collapse categories

Mineral	#	Protein	#	Vitamin	#	
Potassium	1	Kwashiokor	0	B2	3	I
Magnesium	2	Marasmus	3	B12	0	
Calcium	5	Catabolysis	1	С	2	ľ
Zinc	0			Α	0	

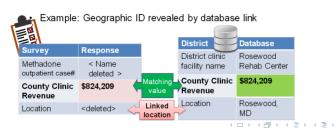




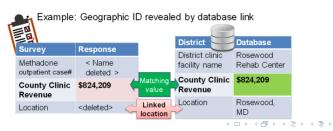
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 - Restrict the upper or lower ranges

Age	Actual Wealth	Top-coded Wealth
24	24,778	24,778
31	26,750	26,750
42	26,780	26,780
64	35,469	30000+
27	43,695	30000+

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- Anonymize keys that link to other datasets



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 - Generalize the meaning of categories
 - Collapse categories
 - Restrict the upper or lower ranges
- Anonymize keys that link to other datasets
- Maintain a master log of all replacements, aggregations, or removals and keep it in a secure location separate from the de-identified data files



DE-IDENTIFICATION EXERCISE



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