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Big Opportunities or Big Problems?: Participants’ Views on Big Data

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Introduction

More data about individuals are available in more forms than at any point in history. This shift in data availability has changed how researchers and laypersons think about data privacy and informed consent (Schadt, 2012). However, as researchers promote big data research, the average user has growing concern over how their privacy is being protected online.

Facebook recently published a study wherein they manipulated the Facebook newsfeed of users without their explicit consent (Kramer, Guillory, & Hancock, 2014). Concern was raised over the ethics of the study, particularly how researchers could have better approached the consent process and reduced the perceived harm from privacy violations (Ross, 2014); however, going forward, researchers need to consider how new ethical concerns need to be considered in the digital age.

To more systematically ascertain how people feel about online companies using their data, we investigated how mTurk users (frequent study participants with online experience) and college students perceived companies using their data, we explored how mTurk users (frequent study participants with online experience) and college students perceived companies using their data, we investigated how mTurk users (frequent study participants with online experience) and college students perceived companies using their data, we investigated how mTurk users (frequent study participants with online experience) and college students perceived companies using their data, we investigated how mTurk users (frequent study participants with online experience) and college students perceived companies using their data.

Method

• 223 mTurk participants and 248 Introduction to Psychology students indicated how okay they were with each of several big data companies they used (i.e., Facebook, Twitter, email, dating websites, Amazon, local stores, GPS providers, and city data programs) using their data for internal versus published research of different types.
• Participants also indicated overall whether sites should:
  • ask permission before using their data;
  • provide information on what their data were used for after the study concludes;
  • compensate the people whose data were used; and
  • provide users with the option to either opt-in or opt-out of the study.
• Participants responded to questions about their concerns with online privacy and their data privacy behaviors using established scales.
• Participants rated how warmly they felt about specific companies and completed scales assessing trust in others and conspiratorial beliefs (all α’s> .80).

Results

• College students were generally more okay with their data being used for research, but neither group was very approving.
• People were generally more okay with data being used for internal research and academic research without identifiers than with employee publication or external research with identifiers.
• People were generally more okay with basic information being shared than with manipulations of their sites or content being used.
• Attitudes were not related to concerns about online safety.
• People who were more okay with their data being used for research had more positive attitudes toward big data companies and higher levels of general trust and tended to be less conspiracy-minded.
• Participants strongly agreed that they should have to give consent for their data to be used in research and that they should be allowed to opt-out of research.

Discussion

Although there is a push to use big data in research, many users are distrusting of companies using their data in this fashion. Our study shows that people generally do not want their data used in research, especially without their knowledge. Our next steps will investigate to what extent people are aware of how their data may be used and decide to use the sites anyway. Internet users, and especially those who may be older and more savvy, are distrusting of what they perceive to be violations of their privacy. Researchers should take steps to bring their ethical practices into line with how participants view their data rights.

References