Social Media and Trust

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Team 2 Final Project

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**Introduction**

With the advent of the internet, there has been a shift on how and where people obtain news. Additionally, there is a growing trend of people getting news from social media platforms, which comes at the expense of credibility and correctness of the news reports on social media (Aldwairi & Alwahedi, 2018). Despite apparent evidence of inconsistencies in social media news reports, a huge number of internet users have made social media their primary source of daily global/local economic, political, or social news updates (Gottfried & Elisa, 2016).

This paper seeks to address the reason why people continue to frequently get their news from social networking sites despite the fact that they do not trust it. We have identified a few hypotheses that form the basis of our research question. Firstly, we will use the survey findings to show the lack of trust that people who obtain news from social media have towards family, friends, and news media in general. Additionally, we will show that the respondents who read the news for political reasons tend to only focus on either republican or democratic debates to enhance their political views. We also identify that respondents who approach social media news with a skeptical eye are more likely to fact check whatever they read on social platforms to verify its authenticity. Survey data also indicates that readers who diversify their sources of information on the subject of government and politics are more likely to engage and share their opinions with their family and friends.

**Literature Review**

Discussions and concerns of “fake news” intensified in the wake of the 2016 United States presidential election (Allcot & Gentzkow, 2017; Gottfried & Elisa, 2016). “Fake news” is defined by Allcot and Gentzkow (2017) as articles which are deliberately and factually incorrect and distributed with the intent to mislead readers. Scholars continue to explore and measure overall levels of trust in mainstream media and news sources across social media platforms. Research has shown a significant relationship between social media consumption and general mistrust in the news across all platforms (i.e., TV, radio, print, online, etc.) (Fletcher & Park, 2017; Kalogeropoulos, Udris, & Eisenegger, 2019; Park, Fisher, Flew, & Dulleck, 2020; Tsfati & Ariely, 2014). Specifically, consuming news through TV and print is associated with an increase in news media trust, while consuming news through online platforms is associated with a decrease in news media trust (Tsfati & Ariely, 2014).

Park and colleagues (2020) suggest that mistrust is directly associated with overall skepticism and/or suspicion surrounding information that individuals engage with on social media. Therefore, mistrust in news can be defined as a “state where the news consumer is skeptical of the news source and defers the judgment (Park et al., 84, 2020). Millions of “fake news” articles circulated on Facebook in the 2016 election which heavily contributes to the massive decline in overall media trust (Allcot & Gentzkow, 2017). Additionally, the anti-media rhetoric from President Trump amplified public mistrust in mainstream media (Kalogeropoulos, Udris, & Eisenegger, 2019).

Social networking plays a significant role in the overall distribution and consumption of news around the world. In fact, research shows that 62% of adults in the United States get their news from social media (Gottfried & Elisa, 2016). Misinformation circulates on social media every single day and it can be challenging for readers to identify trustworthy news sources (Allcot & Gentzkow, 2017). Therefore, it is important to understand how social media use can impact how individuals seek out and understand information. There is minimal existing literature on how receiving the news through different methods is associated with trust in news. The current study seeks to fill this gap in the literature by identifying if there is a relationship between social media consumption and general mistrust in the news. In other words, our research question for this study is: how does social media use impact overall trust in news media? Based on the review of the existing literature, we hypothesize the following:

*H1)* People who get their news from social media feel that most people in society cannot be trusted (i.e., family, friends, & community).

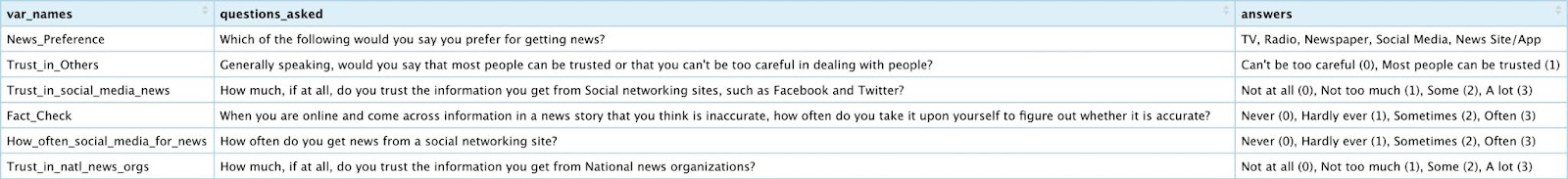
*H2)* People who get their news from social media feel that most national news orgs cannot be trusted.

*H3)* People who do not trust the news they see online are more likely to fact check.

**Data Collection**

This study was conducted by researchers Gottfried and Shearer (2016) at the Pew Research Center. In order to conduct surveys, researchers created The American Trends Panel (ATP). This panel is made of randomly selected adults living in households throughout the United States. Participants were first contacted via phone from two national landlines and divide into two groups: Internet Users and Non-Internet Users. At the end of the phone call, each candidate was offered to join the panel. As a result, the Pew Research Center was able to recruit more than 5000 candidates (Gottfried & Shearer, 2016). The participants who were willing to provide their email address and self-identify as Internet users, were sent surveys directly through this means of communication. In contrast, participants who did not want to share their information were contacted and sent surveys by mail (Gottfried & Shearer, 2016).

Following the recruitment stage, participants received a welcome packet, a monetary incentive and future surveys invitations. The next step included making a few adjustments on ATP data such as population density which was adjusted to match the U.S. Decennial Census from 2010. The Pew Research Center also took into account the possible errors and bias as a result of the question wording and practical difficulties (Gottfried & Shearer, 2016). Overall, researchers had a response rate of more than 60% from both groups (Internet Users and Non-Internet participants). This study was centered around news and social media. This survey was made of multiple questions and each participant had to pick between 5 or 2 responses. The vast majority of variables obtained from this research were categorical (Gottfried & Shearer, 2016). The table below provides our variables of interest:



**Exploratory Data Analysis**

Chart, bar chart

Description automatically generatedAccording to Figure 1, the group with the least average amount of trust in others (measured from 0 to 1, with 0 being “Can’t be too careful” and 1 being “Most people can be trusted”) was the group whose preferred method of news intake was social media. The survey questions which measure these variables were: Which of the following would you say you prefer for getting news? and “Generally speaking, would you say that most people can be trusted or that you can’t be too careful in dealing with people?”.

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Description automatically generatedFigure 2 shows that the group with the least average amount of trust in others (measured from 0 to 1, with 0 being “Can’t be too careful” and 1 being “Most people can be trusted”) was the group whose frequency of social media intake was the most frequent (i.e., often). In fact, it is easily observable that there is a direct linear correlation with frequency of social media as news intake and average amount of trust in others. The survey questions which were asked to measure these variables were: “Which of the following would you say you prefer for getting news?” and “Generally speaking, would you say that most people can be trusted or that you can’t be too careful in dealing with people?”.

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Description automatically generatedAccording to Figure 3, the group with the least average amount of trust in National News Organizations (measured from 0 to 3, with 0 being “Not at all”, 1 being “Not too much”, 2 being “Some”, and 3 being “A lot”) was the group whose preferred method of intake was social media. The survey questions which were asked to measure these variables were: “Which of the following would you say you prefer for getting news?” and “How much, if at all, do you trust the information you get from National news organizations?”.

Figure 4 shows that the group with the least average amount of trust in National News Organizations (measured from 0 to 3, with 0 being “Not at all”, 1 being “Not too much”, 2 being “Some”, and 3 being “A lot”) was the group whose frequency of social media intake was the most frequent. The survey questions asked to measure these variables were: “Which of the following would you say you prefer for getting news?”and “How much, if at all, do you trust the information you get from National news organizations?”.

Chart, bar chart

Description automatically generatedThe results in Figure 5 contradicts our initial hypothesis. For the most part, the more people trusted social media news, the more they fact checked. Furthermore, Figure 5 shows that the groups with higher average amounts of trust in social media news (measured from 0 to 3, with 0 being “Not at all”, 1 being “Not too much”, 2 being “Some”, and 3 being “A lot”) tended to more frequently fact check their news. The survey questions asked to measure these variables were: “When you are online and come across information in a news story that you think is inaccurate, how often do you take it upon yourself to figure out whether it is accurate?” and “How much, if at all, do you trust the information you get from social media?”.

Text

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Table

Description automatically generatedThe chi-squared test above is done at a 5% level of significance. Since the p-value is less than alpha, we can reject the null hypothesis which identifies the overall trust on social media and fact checking is dependent. Additionally, output below indicates that there is 79% probability (confidence) that those with no trust on social news will Fact Check whatever they read.

**Data Driven Hypotheses**

The results from our analysis confirm our first two hypotheses. First, we hypothesized that people who get their news from social media feel that most people in society cannot be trusted (i.e., family, friends, & community). The results from our study support this claim, showing that individuals who get their news from social media have a greater overall trust for people in society. Second, we hypothesized that people who get their news from social media feel that most national news organizations cannot be trusted. The results from our analysis supports this claim, showing that individuals who get their news from social media have a decreased trust in national news organizations compared to individuals who get their news through other means (i.e., print, radio, television, news websites, etc).

The results from our analysis reject our third hypotheses. Based on the review of the literature and findings from our first two hypotheses, we suspected that individuals who were mistrusting of social networking websites would be more likely to fact check the news they consumed on social media. However, we found that an increase in trust in social media news is associated with an increase in fact checking. Therefore, our new data driven hypothesis would be thhat individuals who trust social media news are more likely to fact check. This was an interesting finding and future research ought to look further into the relationship between trust and fact checking.

**Discussion/Conclusion**

The spread of misinformation can mislead the public to believing information which is not factually credible or supported by evidence. This includes information about national elections, climate change, global pandemics, and so much more. Therefore, the current study is important in understanding how social media news consumption can impact overall trust in news media and members of society as a whole. Our main findings show that people who prefer to get their news on social media have the least amount of trust in others compared to those who prefer to get their news through other means. This finding is consistent with previous literature which have identified a significant relationship between social media consumption and general mistrust in the news across all platforms (i.e., print, radio, television, news websites, etc) (Fletcher & Park, 2017; Kalogeropoulos, Udris, & Eisenegger, 2019; Park, Fisher, Flew, & Dulleck, 2020; Tsfati & Ariely, 2014). Additionally, fact checking is an indication of general mistrust in the news (Allcot & Gentzkow, 2017). Therefore, it is not surprising that 79% of individuals that do not trust news obtained from social media platforms fact check whatever they read. However, existing research suggests that most people are bias in their fact checking process (Shin & Thorson, 2017).Therefore, future research is needed on the relationship between fact checking and general mistrust in news platforms.

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**Team member contributions**

All team members put in a collective effort to find a data set which would fit the requirements of this paper. Alexandria and Karene identified peer-reviewed articles which were relevant to our paper, and Alexandria utilized these articles to write the literature review. Liberty wrote the introduction for this paper. Michael cleaned the data and created the figures for our project, with the input of group members to identify what variables to include in our analysis. Liberty ran the chi-square test to build on our analysis and provide clarification of our results. Karene wrote the section about data collection. And finally, Alexandria wrote the discussion section. We all contributed a joint effort on the presentation by making slides with the information we used to contribute to the paper.