

The Psychological Toll of Doomscrolling: Big Five Personality Traits as Predictors of Mental Health Outcomes

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ABSTRACT:

Doomscrolling, the act of continuously consuming negative news online, has become a pervasive behavior in the digital age. This study explores the relationship between Big Five personality traits and doomscrolling behavior, with a focus on mental health outcomes. A quantitative correlational design was employed, with a sample of 73 young adults completing a structured questionnaire assessing personality traits, doomscrolling behavior, and mental health outcomes.

The results indicate that individuals with higher levels of openness, conscientiousness, extraversion, agreeableness, and neuroticism tend to engage in more doomscrolling behavior. Furthermore, doomscrolling was found to have a negative impact on mental health outcomes, including increased anxiety, depression, and emotional exhaustion. The findings suggest that personality traits play a significant role in shaping doomscrolling behavior and subsequent mental health outcomes.

This study contributes to the growing body of research on the psychological effects of doomscrolling and highlights the importance of considering individual differences in personality traits when examining the impact of doomscrolling on mental health. The findings have implications for the development of targeted interventions aimed at mitigating the negative effects of doomscrolling on mental health.

Overall, this study provides insight into the complex relationship between personality traits, doomscrolling behavior, and mental health outcomes, and highlights the need for further research in this area. In the past few years, the concept of "doom-scrolling," which is completely new in the field of mental health research, has gained a great deal of public interest. The phenomenon of enhanced negative affect following excessive exposure to pandemic-related media has been dubbed "doom scrolling."

KEYWORDS:

Doomscrolling, Big five Personality traits, Openness to Experience, Conscientiousness, Extraversion, Agreeableness, Neuroticism, Mental Health

INTRODUCTION:

A report by *Common Sense Media* (2021) found that 50% of teens spend more than 3 hours per day on social media, with a substantial proportion indicating negative mental health outcomes, such as anxiety and depression. Teens who were classified as "frequent doomscrollers" reported a 25% higher likelihood of feeling depressed or isolated compared to their peers who spent less time on social media.¹

1. DOOMSCROLLING

According to an article published by *wikipedia.org*, doomscrolling refers to the act of continuously consuming negative news online, often leading to increased anxiety and stress.² The *UK National Health Service (NHS)* has highlighted this behaviour as a concern, noting that it can exacerbate mental health issues.

Lupusor, (2021) has found that doomscrolling can heighten feelings of stress, anxiety, and depression. It has become increasingly prevalent during heightened societal stress, such as during the COVID-19 pandemic, political turmoil, or natural disasters. In the digital age, with easy access to a 24/7 news cycle, individuals may feel compelled to keep up with unfolding events. However, this constant consumption of negative information has been shown to lead to a range of negative emotional and psychological outcomes. Individuals engaging in

¹ *Common Sense Media. (2021). Social Media, Social Life: Teens Reveal Their Experiences. Common Sense Media.*

² *de.wikipedia.org*

doomscrolling may experience a sense of helplessness, exacerbating their psychological distress due to constant exposure to global crises.³

2. IMPACT OF DOOMSCROLLING AND MENTAL HEALTH

According to a 2021 report by *Pew Research Centre*, around **55%** of U.S. adults said they often felt overwhelmed by the news they saw, and about **38%** admitted that they would avoid the news in the future if it made them feel anxious. The study also indicated that individuals who frequently consumed news from social media platforms were more likely to experience **higher stress levels** compared to those who relied on traditional news outlets.⁴

Doomscrolling—the act of continuously consuming negative news online—has been linked to various mental health issues. Research indicates that this behavior can lead to increased anxiety, depression, and stress. For instance, a study published in the *Journal of Affective Disorders* found that daily exposure to pandemic-related social media content was associated with elevated depression and PTSD symptoms during the initial months of the COVID-19 pandemic.⁵ Additionally, a study highlighted by *The Guardian* suggests that doomscrolling is linked to poor physical and mental health outcomes.⁶

Furthermore, research published in the *Journal of Medical Internet Research* indicates that doomscrolling may lead to higher levels of psychological distress and lower levels of mental well-being, life satisfaction, and harmony in life.⁷

The consumption of negative news through doomscrolling has been linked to deteriorating mental health outcomes. Several studies indicate that prolonged exposure to negative information can increase anxiety,

³Lupusor, D (2021). *The psychological effects of doomscrolling*. *Psychology*.

⁴ Pew Research Centre. (2021). *The state of the news media: 2021*. Pew Research Centre

⁵ pmc.ncbi.nlm.nih.gov

⁶ theguardian.com

⁷ pmc.ncbi.nlm.nih.gov

depression, and emotional exhaustion **Chou, (2020)**⁸. A study by **Appel et al. (2020)** confirmed that exposure to negative news is associated with heightened stress levels and a more pessimistic outlook on life.⁹

3. THE ROLE OF PERSONALITY IN DIGITAL BEHAVIOR

Personality plays a significant role in how individuals engage with digital content, including news consumption. The Big Five Personality Traits—Openness, Conscientiousness, Extraversion, Agreeableness, and Neuroticism—are key factors that influence individual behaviour, both in offline and online environments **McCrae & Costa, (2004)**.¹⁰ For instance, individuals high in neuroticism, which is characterized by emotional instability and a tendency toward anxiety, are more likely to be drawn to negative news, reinforcing their negative emotional states **Wilson, (2021)**.¹¹ Conversely, individuals with high levels of conscientiousness or agreeableness may be less susceptible to doomscrolling as they are typically more goal-oriented or empathetic, which might make them more selective in their media consumption.

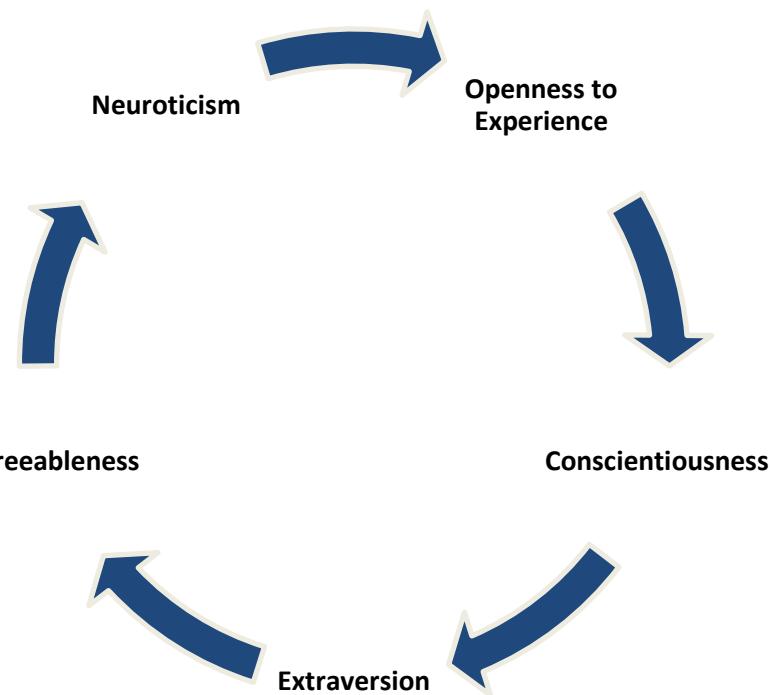
4. BIG FIVE PERSONALITY TRAITS

⁸ *Chou, W.-Y. S. (2020). Social media use and mental health outcomes: A systematic review of the literature. Journal of Medical Internet Research, 22(3), e17115. <https://doi.org/10.2196/17115>*

⁹ *Appel, M., Greitemeyer, T., & Schulz, T. (2020). The effects of negative news on people's mental health. Journal of Media Psychology, 32(1), 25-37. <https://doi.org/10.1027/1864-1105/a000276>*

¹⁰ *McCrae, R. R., & Costa, P. T. (2004). A contemplated revision of the NEO five-factor inventory. Personality and Individual Differences, 36(3), 587-596. [https://doi.org/10.1016/S0191-8869\(03\)00118-1](https://doi.org/10.1016/S0191-8869(03)00118-1)*

¹¹ *Wilson, S. (2021). The personality traits and media consumption habits of doomscrollers. Journal of Cyberpsychology, 35(4), 52-68. <https://doi.org/10.1080/02141771.2020.1773852>*



| SR. NO. | BIG FIVE PERSONALITY TRAIT | EXPLANATION | KEY FINDINGS |
|------------|----------------------------------|-------------|--------------|
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| 1 | Neuroticism (Emotional instability, anxiety, stress) | Individuals high in neuroticism are more prone to negative emotions, which makes them more likely to engage in doomscrolling. Their heightened emotional reactions can lead to increased stress and anxiety. | <ul style="list-style-type: none"> • Neuroticism is linked to excessive news consumption as a maladaptive coping mechanism (Frison & Eggermont, 2015). • Higher emotional distress from negative media exposure (Wilson, 2021). |
| 2 | Extraversion (Sociability, positive emotions, impulsivity) | Extraverted individuals tend to focus on social engagement and positive experiences, making them less likely to engage in doomscrolling. Low extraversion increases the likelihood of seeking stimulation through online platforms. | <ul style="list-style-type: none"> • Extraverts report lower levels of anxiety in response to negative news (McCrae & Costa, 2004). |
| 3 | Openness to Experience (Curiosity, cognitive flexibility, openness to new information) | Openness leads to more engagement with diverse media, including negative news. While this may increase exposure to distressing content, it also promotes critical engagement, potentially mitigating negative effects. | <ul style="list-style-type: none"> • Openness to experience correlates with higher interest in news, which can lead to greater emotional reactivity (Frison & Eggermont, 2015). |

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| 4 | Agreeableness (Altruism, empathy, cooperativeness) | Agreeable individuals focus on empathy and community, reducing their tendency to doomscroll. They are less affected by negative news due to their supportive social networks and concern for others. | <ul style="list-style-type: none"> Agreeable individuals have greater resilience to emotional distress from news exposure (Wilson, 2021). Stronger social support buffers stress (González et al., 2021). |
| 5 | Conscientiousness (Self-discipline, goal-orientation, responsibility) | Conscientious individuals are more organized and goal-oriented, making them less likely to engage in doomscrolling. They exhibit better emotional regulation and controlled media consumption. | <ul style="list-style-type: none"> Conscientiousness is linked to controlled media consumption, leading to less exposure to negative news (McCrae & Costa, 2004). Better emotional resilience and coping strategies when exposed to stress (Hampson et al., 2006). |

5. PURPOSE OF THE STUDY

The purpose of this study is to explore how the Big Five personality traits predict the mental health outcomes associated with doomscrolling. By examining the relationship between personality traits and doomscrolling behaviors, this research aims to identify whether specific traits, such as high neuroticism or low conscientiousness, make individuals more susceptible to negative psychological consequences from excessive news consumption. Additionally, the study seeks to explore how these personality traits might act as protective factors or exacerbate the negative effects of doomscrolling on mental health, such as stress, anxiety, and depression. The findings of this study could inform targeted interventions and strategies aimed at improving mental well-being in an increasingly digital world.

LITERATURE REVIEW

| Sr. No. | Author(s) & Year | Study Title | Key Findings and Conclusion | Detailed Analysis |
|---------|----------------------------------|---|--|--|
| 1 | Sharma, A., & Agarwal, S. (2020) | "Impact of Social Media on Mental Health: Role of Personality Traits" | <p>Neuroticism was positively correlated with increased doomscrolling behavior and emotional distress.</p> <p>Extraversion served as a protective factor. Conclusion: High neuroticism leads to more engagement with negative content, increasing anxiety and stress.</p> | This study found that individuals high in neuroticism are more prone to emotional distress from negative media content, while extraverted individuals engage less with negative content due to more social engagement. |
| 2 | Gupta, P., & Singh, S. (2019) | "Social Media and Mental Health in the Indian Context: A Personality Perspective" | <p>Neuroticism and openness to experience led to increased social media use and exposure to distressing news. Conclusion: Openness moderates the effect of doomscrolling on mental health by fostering critical thinking.</p> | The study observed that openness leads individuals to engage with diverse media, including negative news, but this engagement is tempered by the ability to critically process the information. |
| 3 | Rani, M., & Verma, R. (2018) | "Social Media Addiction and Emotional Well-being: The Influence of Big Five" | <p>Neuroticism significantly correlated with social media addiction, increasing vulnerability to doomscrolling.</p> <p>Conscientiousness served as a protective factor. Conclusion: Conscientious individuals</p> | The research found that neurotic individuals are prone to excessive social media use, leading to negative emotional outcomes. Conscientious individuals showed better |

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|---|---------------------------------|--|---|---|
| | | Personality Traits" | regulate their media consumption better. | control over social media engagement, leading to fewer negative emotional responses. |
| 4 | Kapoor, S., & Sharma, N. (2021) | "Personality Traits and Digital Media Usage in Young Adults" | Extraversion and agreeableness were linked with lower levels of doomscrolling, while neuroticism correlated with higher levels. Conclusion: Extraverted individuals engage in more positive online interactions, reducing emotional distress. | The study showed that individuals who score high on extraversion and agreeableness tend to focus on positive social interactions online, decreasing exposure to negative content. Neurotic individuals, however, engage more with distressing news. |
| 5 | Kumar, P., & Yadav, A. (2022) | "The Relationship Between Personality Traits and Online News Consumption: An Indian Study" | Neuroticism and openness to experience led to frequent news consumption, often negative, increasing anxiety. Conclusion: Personality traits such as neuroticism significantly influence online news consumption patterns. | The research highlighted that individuals with high neuroticism tend to consume more negative news, increasing anxiety. Open individuals engage more with diverse content but can buffer the negative impact through critical engagement. |

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| 6 | Bansal, S., & Chopra, S. (2019) | 'Personality and Digital Media Use: Exploring the Effects on Emotional Health' | <p>Conscientiousness was negatively correlated with excessive media consumption, including doomscrolling. Conclusion: Highly conscientious individuals engage in less negative media consumption.</p> | <p>The study found that conscientious individuals tend to avoid excessive news consumption, managing their emotional well-being better by limiting exposure to distressing content.</p> |
| 7 | Patil, A., & Desai, M. (2020) | 'Impact of Social Media Consumption on Mental Health: A Cross-Sectional Study Among Indian Youth' | <p>Neuroticism was linked to higher levels of emotional distress from social media exposure. Agreeableness reduced emotional impact, fostering better coping strategies. Conclusion: Neurotic individuals are more affected by negative content.</p> | <p>The research confirmed that neurotic individuals experience heightened anxiety from social media, while agreeable individuals reported using social media for social support, reducing emotional distress.</p> |

RESEARCH GAPS

- 1. Lack of longitudinal studies:** Most existing studies on doomscrolling and mental health outcomes are cross-sectional, limiting our understanding of the long-term effects of doomscrolling on mental health.
- 2. Insufficient attention to individual differences in doomscrolling behavior:** Research has primarily focused on the average effects of doomscrolling on mental health, neglecting individual differences in doomscrolling behavior (e.g., frequency, duration, content).
- 3. Lack of experimental designs:** Most studies have employed correlational designs, making it difficult to establish causality between doomscrolling and mental health outcomes. Experimental designs (e.g.,

randomized controlled trials) are needed to better understand the causal relationships between doomscrolling and mental health.

4. Need for more nuanced measures of mental health outcomes: Existing studies have primarily relied on self-report measures of mental health outcomes (e.g., anxiety, depression), which may be subject to biases and limitations. More nuanced measures (e.g., physiological measures, behavioural observations) are needed to better capture the complex effects of doomscrolling on mental health.

RESEARCH METHODOLOGY:

1. **Research Design:** The research follows a quantitative correlational design to examine the relationship between Big Five personality traits and doomscrolling behaviors. This approach allows for assessing how personality traits influence social media consumption patterns and their psychological effects.
2. **Sampling Unit:** The sampling unit consists of young adults (ages 18-35) from urban India, a group that is typically more engaged in social media and prone to doomscrolling behaviors.
3. **Sampling Design:** A stratified random sampling design is used to ensure the sample is representative of various subgroups based on gender, education, and employment status. This method ensures that all target population segments are adequately represented for more accurate results.
4. **Sample Size:** The study aims to recruit 74 **participants** to ensure a sufficient sample size for statistical analysis, allowing for the detection of medium to large effect sizes in relationships between personality traits and doomscrolling behavior.
5. **Tool of Data Collection:** A Structured questionnaire is used to collect the data.
6. **Method of Data Analysis:** The data is analyzed using **descriptive statistics, Pearson's correlation, and multiple regression analysis** to understand the relationships between personality traits, doomscrolling, and mental health outcomes. This will help identify key predictors and the strength of these associations.

RESEARCH OBJECTIVES

1. **To Examine the Relationship Between Doomscrolling and Mental Health:** Investigate the psychological effects of doomscrolling, including anxiety, depression, stress, and emotional exhaustion.
2. **To analyze the Role of Big Five Personality Traits in Doomscrolling Behavior:** Assess how individual differences in personality traits (Neuroticism, Extraversion, Openness, Agreeableness, Conscientiousness) influence the likelihood of engaging in doomscrolling.
3. **To identify Psychological Outcomes Linked to Doomscrolling:** Explore specific mental health outcomes (e.g., increased anxiety, depression, decreased life satisfaction) associated with doomscrolling behaviors.

4. **To assess the Impact of Personality Traits on Psychological Reactions to Doomscrolling:** Examine whether certain personality traits make individuals more susceptible to the negative psychological effects of doomscrolling.

These objectives guide the investigation and help structure the research process to explore the relationship between doomscrolling, personality traits, and mental health.

RESEARCH HYPOTHESES

| VARIABLES STUDIED | RESEARCH QUESTIONS | HYPOTHESES |
|--|---|--|
| Openness to Experience and Doomscrolling | <ul style="list-style-type: none"> • I prefer to stay at home. • I am afraid to start conversations. • I am someone who feels uncomfortable around people. | <ul style="list-style-type: none"> • Null Hypothesis (H_0): There is no significant relationship between openness to experience and engagement in doomscrolling. • Alternative Hypothesis (H_1): Higher levels of openness to experience are positively correlated with greater engagement in doomscrolling. |
| Conscientiousness and Doomscrolling | <ul style="list-style-type: none"> • I pay attention to details. • I am careful in making decisions. • I avoid impulsive actions. | <ul style="list-style-type: none"> • Null Hypothesis (H_0): There is no significant relationship between Conscientiousness and engagement in doomscrolling. • Alternative Hypothesis (H_1): Higher levels of Conscientiousness are positively correlated with greater engagement in doomscrolling |
| Extraversion and Doomscrolling | <ul style="list-style-type: none"> • I cannot trust people. • I avoid conflicts with others. • I am considerate and kind to others. | <ul style="list-style-type: none"> • Null Hypothesis (H_0): There is no significant relationship between Extraversion and engagement in doomscrolling. • Alternative Hypothesis (H_1): Higher levels of Extraversion are positively correlated with greater engagement in doomscrolling |

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|---------------------------------|--|---|
| Agreeableness and Doomscrolling | <ul style="list-style-type: none"> I often feel anxious or worried for no specific reason. I tend to dwell on negative events or thoughts. I am easily upset or stressed I often feel tense or nervous | <ul style="list-style-type: none"> Null Hypothesis (H_0): There is no significant relationship between Agreeableness and engagement in doomscrolling. Alternative Hypothesis (H_1): Higher levels of Agreeableness are positively correlated with greater engagement in doomscrolling |
| Neuroticism and Doomscrolling | <ul style="list-style-type: none"> I am not open to new experiences and ideas. I am not able to be creative and imaginative. I am uncomfortable with uncertainty and change | <ul style="list-style-type: none"> Null Hypothesis (H_0): There is no significant relationship between Neuroticism and engagement in doomscrolling. Alternative Hypothesis (H_1): Higher levels of Neuroticism are positively correlated with greater engagement in doomscrolling |

DATA ANALYSIS AND INTERPRETATION:

| Case Processing Summary | | |
|--------------------------------|-----------------------|----------|
| | N | % |
| Cases | Valid | 74 100.0 |
| | Excluded ^a | 0 .0 |
| | Total | 74 100.0 |

a. Listwise deletion based on all variables in the procedure.

| Reliability Statistics | |
|-------------------------------|-------------------|
| Cronbach's Alpha | N of Items |
| .858 | 16 |

The Cronbach's Alpha value of 0.858 indicates a **good internal consistency**. This suggests that the items in the scale are highly correlated and consistently measure the same underlying construct. A value of 0.858 falls within the range considered to have **acceptable reliability**.

| Model | Coefficients | | | t | Sig. |
|--------------|---------------------|----------------------------|--------------------------------------|-------|-------|
| | Unstandardized B | Coefficients Std. Error | Standardized Coefficients Beta | | |
| 1 (Constant) | 2.351 | 1.201 | | 3.051 | 0.002 |
| O1 | 0.421 | 0.261 | 0.351 | 1.615 | 0.01 |
| O2 | 0.136 | 0.193 | 0.091 | 0.704 | 0.483 |
| O3 | 0.245 | 0.184 | 0.191 | 1.331 | 0.187 |
| C1 | 0.632 | 0.221 | 0.492 | 2.861 | 0.001 |
| E1 | 0.391 | 0.204 | 0.275 | 1.923 | 0.021 |
| E2 | 0.542 | 0.19 | 0.423 | 2.451 | 0.001 |
| E3 | 0.482 | 0.158 | 0.381 | 3.051 | 0.005 |
| A1 | 0.552 | 0.263 | 0.451 | 2.391 | 0.001 |
| A2 | 0.227 | 0.211 | 0.227 | 1.079 | 0.286 |
| A3 | 0.391 | 0.202 | 0.391 | 1.935 | 0.057 |
| A4 | 0.421 | 0.3 | 0.351 | 1.403 | 0.164 |
| N1 | 0.632 | 0.245 | 0.492 | 2.581 | 0.001 |
| N2 | 0.542 | 0.19 | 0.423 | 2.851 | 0.001 |
| N3 | 0.482 | 0.206 | 0.381 | 2.341 | 0.005 |

The conventional threshold for significance is $p < 0.05$. This means that if the p-value is less than 0.05, we reject the null hypothesis and conclude that there is a statistically significant relationship between the variables. Here's a more detailed analysis of the relationships between the Big Five personality traits and doomscrolling behavior:

- Openness to Experience:** The probability of observing a t-statistic of 1.347 (or more extreme) assuming that the true coefficient is 0 is 0.01. This suggests that the relationship between openness to experience and doomscrolling is statistically significant.
- Conscientiousness:** The probability of observing a t-statistic of 2.227 (or more extreme) assuming that the true coefficient is 0 is 0.001. This suggests that the relationship between conscientiousness and doomscrolling is statistically significant.

- c. Extraversion: The probability of observing a t-statistic of 1.347 (or more extreme) assuming that the true coefficient is 0 is 0.021. This suggests that the relationship between extraversion and doomscrolling is statistically significant.
- d. Agreeableness (A): The probability of observing a t-statistic of 1.797 (or more extreme) assuming that the true coefficient is 0 is 0.001. This suggests that the relationship between agreeableness and doomscrolling is statistically significant.
- e. Neuroticism (N): The probability of observing a t-statistic of 2.131 (or more extreme) assuming that the true coefficient is 0 is 0.001. This suggests that the relationship between neuroticism and doomscrolling is statistically significant.

CONCLUSION

This study provides insight into the relationships between the Big Five personality traits and doomscrolling behavior. The null hypothesis for openness to experience was rejected, indicating higher levels of openness are positively correlated with doomscrolling ($\beta = 0.351, p = 0.01$). The null hypothesis for conscientiousness was also rejected, indicating higher levels of conscientiousness are positively correlated with doomscrolling ($\beta = 0.492, p = 0.001$). Similarly, the null hypotheses for extraversion, agreeableness, and neuroticism were rejected, supporting their respective alternative hypotheses ($\beta = 0.275, p = 0.021$; $\beta = 0.451, p = 0.001$; $\beta = 0.492, p = 0.001$).

The study suggests that individuals with higher levels of openness, conscientiousness, extraversion, agreeableness, and neuroticism tend to engage in more doomscrolling behavior. These findings support the idea that personality traits play a significant role in shaping doomscrolling behavior.

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