



Digital Distraction: The Negative Impact of Technology on Attention and Cognitive Focus in Young Minds

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Abstract: Attention span and cognitive focus in young minds these days are increasingly structured by the growing influence of digital distractions. Drawing from the ideas of Foucault and Nietzsche, this paper examines how technology molds behavior and, at the same time, is used as a tool of control through power relations. This digitally fosters a form of nihilism, the sense life has no purpose. By using a mixed-methods approach, this research combines the surveying and in-depth interviewing of students and instructors about how technology influences attention, learning, and academic performance. Results indicate that while technology brings many benefits, it also provides significant challenges-most notably via social media and smartphone distractions. These distractions reduce attention spans, decrease deep learning, and contribute to cognitive overload. This study therefore calls for the integration of technology into education in a balanced way, highlighting digital literacy, mindful use, and distraction-reduction strategies. In the process, self-awareness, self-regulation, and responsible use will allow people to use its benefits rather than fall into disengagement and cynicism. Technology should serve as a tool for learning and growth-not a barrier to focus and intellectual development.

Keywords: Attention Span; Cognitive; Negative Impact; Technology; Young Mind

1. INTRODUCTION

It is no secret that over the years, technology has impacted the cognitive abilities of children. Our cognitive abilities are what we use to do everyday tasks like, speaking, listening, reading, writing, thinking, remembering, and paying attention. Although cognitive abilities are innate in the brain, you can strengthen and enhance them through self-imposed challenges. Your cognitive skills affect your every move even if you don't realise it, improving one of your cognitive skills can help improve the rest (Indeed editorial team, 2024). Our cognitive attention span has gone through a huge change due to Technology.

Studies have shown that the average attention span of students has decreased over the years. The impact of technology on our attention span, it shows especially on our younger generation of students who are surrounded with technology from a very early age, from games to social media. A 2023 study done by Mills found that our attention spans are declining, averaging just 47 seconds on any screen. That is a 66% decrease over the last 2 decades (Mills, K, 2023). This huge decrease has affected how students receive and retain information in school. Not only have scientists pointed out the effects of technology on our decrease in attention span, but students have also seen a decrease in their ability to focus and pay attention (Abigail, n.d.).

Paul-Michael Foucault, French philosopher who created the theory "Power, Knowledge and social institutions", argues that big technology companies are not just creating tools, they are designing social media and other online apps to be addictive. These companies intentionally make apps and

websites so engaging that people spend a large amount of their time on technology. This affects the way students think and makes it harder for them to focus on important parts of their lives. Foucault's theory applies to the idea that believes the problem isn't just about overconsumption of technology, but also on how technology companies design their technology to manipulate people (Foucault. M, 1980). Foucault's theory can help us understand why students' attention spans are decreasing, a phenomenon that is caused by excessive screen usage. This causes People's capacity to focus and concentrate to be restricted due to the addictive nature of technology, which is purposefully designed by technology companies to create a condition of constant distraction. This phenomenon results from the power dynamics between technology companies and their users.

A harsh critic of modern society, Friedrich Nietzsche who created the theory "The Will to Power", argued that people's will to power had been undermined by their relentless quest for happiness and fulfilment as well as their growing reliance on technology. Nietzsche maintained that people may strengthen their will and validate their existence by accepting life's obstacles and hardships. He believed that the will to power may be used to combat the nihilism that dominates contemporary culture the high rise in technology (Friedrich nietzsche,1968). There are some solutions that can be implemented to enhance students' attention span, such as reducing the use of technology. Research done by (Moulton, 2024) shows that you doing just some simple factors to increase your attention span, just by turning or closing unneeded distractions like turning off your notifications on your phone, closing tabs on your computer you don't need or even just putting your phone away can make you more focused on your task.

In many different ways, our attention span is what glues everything together, because if you don't pay attention how can you expect to remember it? The main reason why students' attention spans are not improving is because they heavily rely on social media and other technology which floods their brain with dopamine, making it highly addictive. However, attempting to implement these solutions may be hard due to the fact that they might also use technology for work, entertainment, and communication so it may be hard to reduce the use of technology or change their habits it may also be hard due to the addictiveness and high dose of dopamine released when using online websites (Kavin Alaparrthi, 2024). This thesis' main goal is to thoroughly investigate the negative effects that excessive technology use has on students' attention spans from the age range of teenagers to adults (12-24 years old). The research will explore the complex interactions between social media and technology on cognitive function. The ultimate goal is to figure out simple solutions that teenagers and adults can implement in their everyday lives to better themselves and can improve focus. This can encourage a more positive interaction between students and technology. This research will raise awareness of how excessive technology use affects students' attention spans and provide practical solutions to help teenagers and adults develop healthier digital habits, improve focus, and foster more positive interactions with technology.

2. LITERATURE REVIEW

Paul-Michel Foucault and Friedrich Nietzsche are two significant thinkers whose work can inform our understanding of technology and its impact on humans. Foucault's analysis of powers reveals how controlling structures shape humans' behavior and one can observe it in technology platforms' impact on society nowadays. Nietzsche's critique of contemporary society and his writings about nihilism reveal potential consequences of a technology shaped world, such as a loss of traditional values and purpose. Considering both of them together can make one understand technology's generated problems and speculate about how to manage them. Both of them urge a critical examination of modern technology in terms of creating powers and altering humanity in society.

1) Paul-Michel Foucault: Power, Knowledge, and Social Institutions:

Paul-Michel Foucault (1926–1984) was a French philosopher, author, and literary critic. He is best known for his theory of “power, knowledge and social institutions” which explores how power dynamics shape and influence our understanding and perspectives. Foucault gained acknowledgement through his critical thinking of social institutions such as the criminal justice system, psychiatry, medicine, and the history of human sexuality. His work has significantly impacted numerous academic fields, including political science, sociology, philosophy, and cultural studies (Michel Foucault, 2019). Foucault created this theory to critique how power influences our knowledge, power and knowledge are connected, by showing how those in power shape societies views of what is considered right or wrong. An example can be on how schools teach facts and norms, which influences social order—our behaviour and unwritten rules (Leelavathi Gururaj, 2021).

Rather than providing solutions to these critics, Foucault encourages people to question and challenge existing power and social institutions and how power affects society, and reconsider social norms. His work introduces the concept of "discourse," which are systems of thought that define what is considered true or normal, and these are maintained through power relations (Adams, 2017). Foucault's study of disciplinary power, which involves surveillance, normalisation, and punishment, is especially relevant today, as seen through technology and how big of an influence it has on how we think because they want to get the same feeling of dopamine received when using technology so they will study fast to go back to using technology.

2) Friedrich Nietzsche: The Will to Power and Technological Nihilism

Friedrich Wilhelm Nietzsche (1844-1900) was a German classical scholar, philosopher, and critic of culture, who became one of the most influential of all modern thinkers. One of his most famous theories is the “will to power” which aims to respond to the rise of nihilism—the belief that life lacks purpose and meaning. The theory of the “will to power” ultimately means life and advocates for finding purpose, rejecting nihilism, and celebrating the human spirit and creativity (Emrys Westacott, 2019). One way to challenge oneself is through creative expression, such as art or philosophy, which can foster self-validation and personal growth. He sought to overcome nihilism by proposing a new morality based on individual affirmation.

Despite his contributions, Nietzsche has faced criticism for promoting individualism and elitism. His emphasis on the will to power has been interpreted by some as endorsing a dangerous form of domination. To counteract this sense of meaninglessness, Nietzsche proposed the concept of self-overcoming, which involves striving for personal growth and development by stepping out of our comfort zones and challenging ourselves. This can be related to the decrease of attention span due to technology from the desire for individuals to control their environment and experiences. Technology often empowers this. By being able to customise your feed and what you wanna see, this content control can lead to the dependence on technology for stimulation and satisfaction.

Nietzsche and Foucault offer critical perspectives on technology and power. Nietzsche argues that technology constantly simulates domain which can reduce being able to have deep thoughts and self-overcoming, leading to superficiality and exacerbating nihilism thought that there is no point in living life because we all die (Parkin, 2018). His concept of the "will to power" emphasises individual struggle for self-growth and self-improvement reducing the thoughts of nihilism by choosing different forms of art to express oneself. While Foucault looks at how power operates in institutions and social systems. He studies how technologies, like surveillance and social media, influence and control people's behaviour. His work focuses on the ways these systems and technologies enforce rules and norms.

Both Foucault and Nietzsche provide essential frameworks for understanding the relationship between technology, power, and cognition. Foucault's analysis of institutional control and surveillance highlights how technology shapes behavior and reinforces power structures, while Nietzsche's critique of nihilism and the will to power explains how excessive digital consumption can undermine meaning and self-discipline. Together, their theories suggest that while technology has the potential to erode attention spans and cognitive depth, individuals can resist these effects through critical awareness, self-discipline, and creative engagement. By integrating their insights, this research explores how modern individuals can navigate the challenges of technology without succumbing to its negative cognitive consequences. Developing mindful technology habits, fostering deep intellectual engagement, and cultivating self-awareness emerge as crucial strategies for mitigating the impact of digital distractions. Ultimately, this study seeks to bridge philosophical theory with practical solutions, offering a nuanced understanding of how we can reclaim focus and meaning in an increasingly digital world.

3. METHOD

This study employed a mixed-methods approach to explore the effects of excessive technology use on the attention spans and cognitive skills of students and teachers aged 12 to 24 at Cendekia Harapan. By combining quantitative and qualitative methods, the research aimed to capture both numerical data and personal experiences to provide a clear and nuanced understanding of how technology impacted these cognitive areas.

The quantitative component utilised a survey to gather numerical data on technology use, attention problems, and perceived effects on academic and teaching performance. The qualitative

component directs interviews to gain deeper insights into personal and collective experiences with technology use. A cross-sectional design was used to collect data at a single point in time, allowing for the analysis of the relationship between technology use and cognitive performance without the need for long-term tracking.

The participants included 34 students and 6 teachers, for a total of 40 individuals, with students aged between 12 to 18 years old and teachers aged 18 to 24 years old. The survey was distributed to all 40 participants and included a combination of multiple-choice and rating-scale questions, focusing on the frequency of technology use, self-reported issues related to attention, and perceived impact on academic performance for students and teaching effectiveness for teachers. Qualitative data were collected using one method: semi-structured interviews. In-depth, one-on-one interviews allowed participants to share how their technology use impacted their attention spans and cognitive skills in daily tasks. Quantitative data were analysed using descriptive statistics and correlation analysis to explore relationships between technology use and attention/cognitive performance, employing statistical software (Excel) for data processing. Descriptive analysis provided an overview of technology use patterns and perceived attention difficulties, while correlation analysis identified statistically significant relationships between technology use and attention problems or academic/teaching performance.

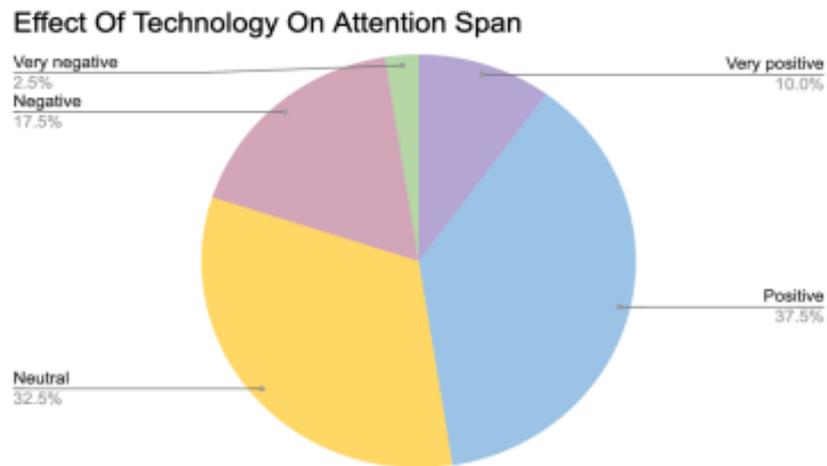
For qualitative data, thematic analysis was employed, involving coding to identify recurring themes and patterns related to participants' subjective experiences of technology use, perceived impacts on attention span and critical thinking, and common strategies used to manage distractions. Thematic coding was conducted manually and verified using qualitative analysis software like ATLAS.ti to ensure consistency. Ethical considerations were paramount, with all participants receiving detailed informed consent forms explaining the study's purpose, their rights, and the confidentiality of their responses. The research ensured confidentiality by anonymizing personal information and survey responses, emphasised voluntary participation with the option to withdraw at any time, and secured data through password protection, accessible only to the research team.

4. RESULT AND DISCUSSION

RESULTS

The survey and interview results both showed how technology, especially social media and smartphones, influences participants' academic performance, attention spans, and cognitive skills. A big finding from both data is the widespread use of smartphones and social media used on the smartphones, with 33 out of 40 participants reporting daily use of social media, while the 6 participants reported to rarely use it or do not have it. The interviewees echoed this, describing how they engage with technology for socializing, gaming, schoolwork, and entertainment. Smartphones were the most frequently used devices, with all 40 participants using them daily. Computers were also widely used, particularly for schoolwork and streaming, with 26 participants indicating daily use.

Regarding attention and focus, both the survey and interviews suggest a mixed impact of technology. The survey showed that most participants (31) described their attention span as moderate, with 7 reporting a short attention span. The interview responses supported this finding, with participants noting that technology often distracts them from tasks, especially when multitasking or responding to notifications. When asked about their ability to focus while using technology, most participants found it challenging. 8 of the 40 respondents found it difficult to maintain focus, a sentiment expressed by participants in the interviews, who mentioned being sidetracked by social media, YouTube, or notifications while trying to complete schoolwork. In terms of academic performance, the survey indicated that 15 participants felt technology had a positive impact, while 13 were neutral, and 7 reported negative effects. The interview participants echoed this, acknowledging that while technology provides useful tools for research and organization, the distractions it brings often hinder their productivity. For example, one participant mentioned they could get distracted by YouTube or social media even while studying.



Picture 1. How Much Technology Affects Attention Span

All analyses included basic descriptive statistics on the frequency of the use of technologies and the potential ability to focus, as main indicators. The comparative analysis of questionnaires and semi-structured interviews aims at a closer understanding of in which directions the patterns of use influence attentiveness, performance, and overall cognitive abilities in participants. Trends and patterns were identified, showcasing that technology, though being quite a helpful tool, impairs the level of focus and cognitive skills quite negatively, especially when non-educational technology, like social media or even gaming apps, is incorporated into the process. For most participants, social media was such an integral part of life that this led to issues of distraction. The interviewees described how one could get sucked into endless scrolling, which affected their ability to focus on schoolwork and tasks that required quite a bit of concentration.

Although the questionnaire and interviews both showed that participants mostly consider their attention span to be moderate, it can still be interpreted that, with ongoing difficulties of focusing alongside the development of technology, it might account for a contribution in shorter attention spans

over time. While for most participants, the usage of technology helped with better academic performance, some felt it was detrimental in terms of their critical thinking and engagement with material on a deeper level. This again validates with the results of the survey where 19 participants believed technology enhanced their critical thinking and 13 felt it diminished it. The findings agree with the hypothesis that technology would have both positive and negative impacts on cognitive skills, academic performance, and attention span. It was hypothesized that even though technology would facilitate academic performance in some ways, it would also act as a cause of distraction for students and eventually decrease their attention span. These results are further confirmed by the survey, where many participants reported positive effects on academic performance but struggled with a lack of focus and attention, especially when using social media or other entertainment apps.

5. DISCUSSION

The theory of Foucault about power and knowledge can be applied to understand how technology shapes students' behavior and learning. In educational contexts, technology-online learning platforms and digital tools-is a tool of power that structures ways in which students access information and engage in academic content. Some of the participants in the survey felt that online learning platforms had positively affected their learning, which corroborates to Foucault's theory on how technology organises and controls knowledge. But the inability of students to stay focused, as contributed both from the questionnaires and interviews, reflects a kind of resistance to this control. This is the fragmentation of attention: constantly switching between apps, notifications, and tasks.

This interferes with deeper learning and engagement. The philosophy of the Will to Power by Nietzsche and the very notion of technological nihilism also explain how technology impacts personal growth and cognitive potentials. According to Nietzsche theory, technology can be empowering or create meaninglessness; it all depends on how one uses it. These responses from the survey and interviews reveal that while technology can help some to learn and grow, it may also create a superficial sense of achievement, especially when students feel overwhelmed by the constant flow of information and pressure to perform on social media. This is a very nihilistic effect, which is well expressed by feelings of inadequacy expressed by some participants in the interviews, describing social media as some level of comparison and anxiety that detracts from one's sense of purpose (The Emotional Dynamics of Nihilism, 2011). While Foucault's and Nietzsche's theories are important, they cannot fully explain students' active attitude in managing their relationship with technology.

For example, many students participating in the survey and interviews reported intentionally acting to minimize distractions, such as limiting social media use or turning off notifications. This active agency again challenges the more passive view of students being completely shaped by active external technological forces suggested in Foucault's theory. In the same way, Nietzsche's technological nihilism does not explain how technology, when used with a mindful approach, can cultivate personal growth and self-improvement. The findings of the survey and interviews suggest that the kind of technology

used is highly instrumental in the kind of effect it will have on attention and cognitive skills. Smartphones, used very often for social networks and entertainment, easily interfere with attention and concentration.

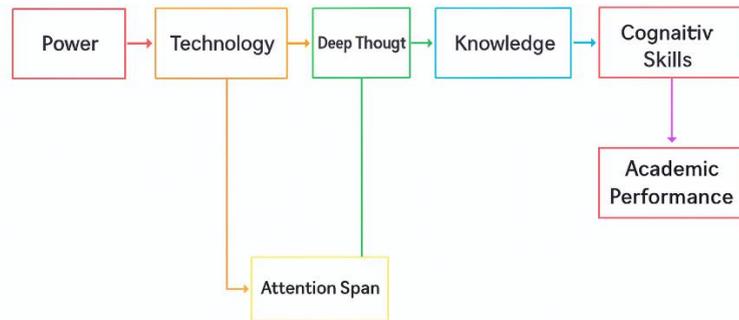
On the other hand, educational platforms and tools, which invite deep involvement in materials, tend to affect students in a more positive direction. The data from the survey revealed that 25 participants used online learning platforms like Google Classroom or Zoom, and most of them reported positive effects on academic performance. However, as was revealed during the interviews, the distractions inherent in using smartphones for non-educational purposes were often a source of frustration and disengagement from learning. Other external factors influencing technology use may include social pressures, academic workload, and personal interests. As indicated by participants in the interview, despite technology offering convenience and access to most resources, it is at the same time speeding up life and making one feel that they need always to be "on."

The constant need for activity and stimulation, added to the addictive qualities of social networking, contributes to a diminution of attention span and cognitive overload. Comparison with previous research findings of the current study are in line with other investigations, such as that by Selwyn (2016), who equally found that technology can enhance education outcomes and create distractions due to attention issues. Relatedly, studies on multitasking and cognitive load (Sweller, 1988) also found that excessive use of technology for purposes other than education may impede deep learning and critical thinking. This paper contributes to the literature by putting the spotlight on social media and smartphones as major factors that influence attention and cognitive development in real-life contexts. The results of this study align with previous research, such as that by Selwyn (2016), which found that technology can enhance educational outcomes while at the same time posing some challenges regarding attention and focus.

On the other hand, the multitasking and cognitive load research by Sweller (1988) suggests that an overuse of technology, particularly for non-educational purposes, has a potential effect on inhibiting deep learning and critical thinking. However, the present study adds to the literature by pinpointing social media and smartphones as some of the major factors that affect attention and cognitive development in a natural setting. The findings have a direct relevance to the research question which is "How does frequent use of digital devices affect students' attention and focus?" on how technology affects the cognitive skills, attention span, and academic performance of students. They portend that even as technology holds promise for improving learning, it also introduces considerable distractions that diminish students' capacity to focus and engage in material at a deeper level. These findings indicate a number of practical recommendations for educators and students. Educators could support the use of technology that encourages critical thinking and engagement, such as educational apps and platforms that are designed around problem-solving. They could also include strategies to help students manage distractions-for example, by encouraging offline activities and teaching digital literacy and time management skills. For students, the findings suggest being intentional with technology use, setting

boundaries, and taking breaks to minimize cognitive overload.

In summary, the research has shown that technology, and especially smartphones and social media, is the very core of the students' life and has both positive and negative influences on attention, academic performance, and cognitive skills. While some participants reported that technology enhanced their academic performance and personal growth, others struggled with distractions and reduced attention spans, particularly when using social media or entertainment apps.



Picture 2. Conceptual Framework of Technology in Education

The diagram illustrates the relationship between technology, cognitive processes, and academic performance, as reflected in the study's findings. It begins with power, which drives technological advancements and their integration into education. Technology, in turn, influences deep thought, with both positive and negative implications. While digital tools and learning platforms can enhance critical thinking and knowledge acquisition, distractions from smartphones and social media often impair focus, leading to surface-level engagement rather than deep learning. The connection between deep thought and knowledge suggests that when students engage meaningfully with technology, they develop a stronger foundation of understanding.

This acquired knowledge then shapes cognitive skills, such as problem-solving and critical thinking, which ultimately influence academic performance. However, the diagram also highlights an indirect factor: attention span, which is affected by technology. The study found that while technology provides valuable educational resources, frequent distractions especially from entertainment and social media reduce students' ability to maintain focus. This diminished attention span negatively impacts deep thought, as students struggle to engage in prolonged intellectual engagement, leading to difficulties in knowledge retention and cognitive development. The feedback loop in the diagram underscores that sustained focus is crucial for meaningful learning and academic success.

Overall, the study's findings align with Foucault's theory of power and knowledge, as technology structures students' access to information while also posing challenges to their engagement. Additionally, Nietzsche's concept of technological nihilism is relevant, as technology can be both an empowering tool for learning and a source of distraction that fosters a sense of superficial achievement. The diagram effectively maps out these dynamics, showing that while technology has the potential to enhance academic performance, its impact is largely determined by how it is used either as a means of intellectual growth or as a distraction that fragments attention and reduces cognitive engagement. This

research contributes to the debate on technology use in education by bringing into focus some of its less welcome effects. It calls for more thoughtful and balanced ways of integrating technology into schools, where teachers and students will use it for a purpose and will be aware of its impact.

In other words, the aim is to contribute to improving learning with technology, without decreasing attention or thinking skills. The approach allows for digital tools to be used in ways that promote much deeper learning, thinking, and a much more focused learning environment. Several limitations are evident in this study, including the relatively small sample size of teachers, which limits generalization of findings to broader educational contexts. Further, self-reported data may be biased as participants might not report their use of technology or its effects correctly. The research also did not take into consideration the type of technology or apps participants used, which might affect their attention and cognitive skills differently.

The limitations need to be followed up with future research with larger samples that are more representative, comprising students from all levels of education and from various geographic locations. It would also be interesting to explore what types of technology students use educational apps, pure entertainment, or social network platforms and the differential impact each has on attention, learning, and personal growth.

6. CONCLUSION

This research has explored the influence of digital distraction on the attention span and cognitive focus of young minds. The main findings indicate a rather complex relationship between technology use and cognitive function. While technology offers several advantages, such as access to information and collaborative learning tools, it also presents significant challenges. This is because, through research, it was found that smartphones and social media are highly integrated into young people's lives, and high levels of daily use were reported. In their usage of technology, participants described several challenges in maintaining focus, with frequent distractions from social media notifications and other online content.

The study observed positive and negative impacts on cognitive skills. While technology has the potential to enhance learning by providing access to information and other online resources, it can also interfere with deep learning and critical thinking by promoting superficial engagement and fragmented attention. In this sense, the influence of technology on a student's learning depends on many variables: the type of technology being used, personal preferences, and context. The main research question that this study explored was: "How does frequent use of digital devices relate to attention and focus among students?" The findings of this study contribute to answering the above research question and, as such, establish that excessive use of technology, especially through social networks and smartphones, affects attention spans, cognitive focus, and the ability to engage in deep learning. This thesis has made a number of useful contributions to the field of education and technology. The study transcends the simple views of technology being either all good or all bad. It points out the complexity and multi-

dimensionality of the influence of technology on young minds.

By placing technology use within the context of real-life experiences, the study offers useful insights into the challenges and opportunities created by the rise of technology in education. Because these results will have major practice implications, educators will be forced to consider methods of dealing with distraction, fostering digital literacy skills, and incorporating technology in a manner supportive of deep learning and critical thinking. The findings have wider implications for how the relationship of young people with technology is changing. These form part of a growing body of research into the effects of digital technologies on cognitive development, mental health, and well-being. Lessons learned from this research will enable the framing of policies, the development of educational technologies, and ultimately help parents and educators support young people in navigating the digital world with efficacy. This study adopted an integrated mixed-methods approach, combining quantitative data from surveys with qualitative data from interviews. Data analysis used descriptive statistics, correlation analysis, and thematic analysis for comprehensiveness in the understanding of technology use and its implications on young minds.

It connected the data effectively into the theoretical framework of both Foucault and Nietzsche, on how the relationship of power and pursuit of pleasures respectively shaped technology use and further affected an individual's impact. This analysis also underlines an interplaying activity at multiple dimensions among individual agencies, social pressure, and digital technology design for shaping student experience. The findings point to the concurrence of existing literature that has documented challenges related to technology use: distraction, impacts on attention spans, and the influence of social media on mental health. However, this study adds to these insights by framing the issues in education and by investigating varied perspectives from both students and teachers. With that, this paper concludes the thesis on the impact which digital distraction has on attention span and cognitive focus in young minds.

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