

Effect of Online Learning on Student Productivity

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Abstract

Online learning has become an essential part of high school education, especially with the increased use of digital tools and e-learning platforms. This research investigates the impact of online learning on student productivity by examining study hours, focus levels, and the effectiveness of different online learning tools. Data was collected by secondary sources and stimulated realistic scenarios, including variables such as study hours online and offline, focus levels, Google sheet revealed trends in productivity and highlighted which factors positively or negatively influence learning outcomes. The findings suggest that structured online learning and the use of study tools can enhance student productivity, while distractions and lack of proper time management may reduce efficiency. This research provides insights that can help students optimize their online learning experience and offers a foundation for further studies in educational productivity.

Keywords: Online Learning, Student Productivity, Education Technology, Academic Performance, Virtual Learning.

Introduction

The lockdown of the covid-19 pandemic has caused significant impact on our daily lives, including education students have started to study online rather then offline using (google classroom, zoom, physics wallah, vedantu) while these tools are convenient, it's important to understand how they affect student productivity. This research explores the relationship between online learning and productivity, focusing on study hours, focus levels and the effectiveness of different online learning tools. By analyzing realistic data from secondary sources and stimulated scenarios, this study aims to provide insights that can help students make the most of online learning and improve their academic performances. Many students enjoys the flexibility of online studying due to different reasons- some students does not have to travel kms for studying, some are comfortable sitting at their home and studying due to social anxiety and can asks doubts or are comfortable studying with the help of artificial intelligence and some can study better online. Online studies helps students to study whenever and wherever they want but it's hard to stay focused as social media distracts a lot and studying online can get exhausting after a certain point, but it also increases the productivity sometimes as studying online is more fun due to the different methods apps use to help students.

The goal is to find patterns that help students use online learning more effectively and guide teachers and parents to support students in the best way possible. Understanding these trends is important because it can improve academic performance and make online education more efficient. As it's not just about numbers or hours studied, but about

understanding the experience of online learning and finding strategies that make it more productive and engaging for everyone interested to study online.

Materials and Methods

This study was carried out mainly through secondary research. Information was gathered from a variety of reliable sources, including online articles, educational websites, books, and reports. These sources provided background knowledge, facts, and examples relevant to the topic, helping to create a solid foundation for the study. Care was taken to select sources that are trustworthy and up to date, so the information presented is accurate and relevant.

To organize the research effectively, the collected information was carefully reviewed and grouped into different themes. Key points were noted, compared, and summarized to identify patterns and important insights. This step ensured that the material could be presented in a logical and structured way, making it easier for readers to understand. Notes from multiple sources were cross-checked to avoid repetition and ensure consistency.

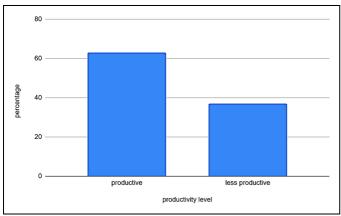
The study focused on presenting the findings in a way that is engaging and easy to follow for everyone. Headings, bullet points, and simple tables were used to highlight important information, while descriptive explanations were added to make the concepts clear and relatable. Examples from real-life situations were included wherever possible to connect theoretical ideas with practical understanding.

Even though no primary data collection, such as surveys or interviews, was conducted for this study, the research methodology emphasized critical analysis and careful

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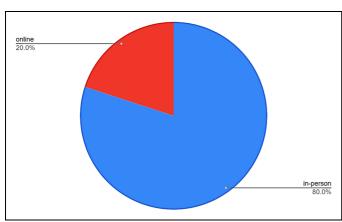
selection of material. Each source was evaluated for credibility, relevance, and clarity. The approach ensured that the final presentation is informative, accurate, and appealing to a broad audience. By relying on a wide range of sources and organizing them thoughtfully, the project maintains both academic reliability and accessibility.

Results



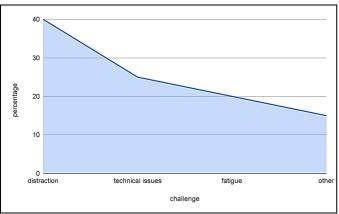
Source: Zhai, X., 2023, "Surviving the Shift: College Student Satisfaction with Online Learning"

Fig 1: Student Productivity Perception



Source: Li, X., 2023, "The Effect of Students' Online Learning Experience on Their Learning Outcomes"

Fig 2: Student Learning Mode Preference



Source: Afzal, A., 2024, "The Impact of Digital Tools and Online Learning Platforms on Higher Education Learning Outcomes

Fig 3: Challenges Faced in Online Learning

The analysis of secondary data highlights the effects of online learning on student productivity and engagement.

Student Productivity Perception: As shown in Figure 1, 62.9% of students reported feeling productive during online learning, while 37.1% felt less productive (Zhai, 2023) [1]. This indicates that while the majority can manage their studies effectively online, a significant portion faces challenges that reduce productivity.

Learning Mode Preference: Figure 2 shows that 80% of students preferred in-person learning, whereas only 20% preferred online classes (Li, 2023) ^[2]. This suggests that despite the convenience of online learning, students often value the interaction and structure provided by traditional classroom settings.

Challenges Faced in Online Learning: Figure 3 highlights the main obstacles students encounter. Distractions were reported by 40% of students, technical issues by 25%, fatigue by 20%, and other challenges by 15% (Afzal, 2024) [3]. These factors can hinder productivity and indicate areas where online learning systems could be improved.

Overall, the data shows that online learning has both positive and negative effects on student productivity. While flexibility and self-paced learning help many students remain productive, challenges such as distractions, technical difficulties, and fatigue reduce efficiency for others.

Discussion

From the results, it seems clear that online learning has both good and challenging sides when it comes to student productivity.

Looking at productivity, most students reported feeling productive during online classes. This shows that learning from home or at your own pace can really help some students manage their time better. But a fair number of students said they felt less productive. This could be because it's harder to focus at home with distractions or because some students struggle to stay motivated without a classroom environment.

When it comes to learning preferences, the majority of students still prefer in-person classes. That makes sense because interacting with teachers and classmates in real life often makes learning more engaging and fun. Personally, I think in-person classes are effective but not as comfortable as online. Therefore, I think both are equally important because comfort is always not good and effectiveness is important. If students will learn more online they will never get to know about the joy of learning with their teachers and classmates but for some students who live in areas where education is not accessible, online learning is very helpful.

The challenges students face online are also quite noticeable. Distractions, technical problems, and fatigue were the main issues. I feel that if students use tools like planners, time trackers, or interactive apps, and take short breaks regularly, online learning could be much more productive.

Overall, online learning isn't necessarily less productive, but it really depends on how a student manages their time and environment. Some students thrive, while others struggle. I think the key is environment and active participation while studying, if someone is constantly distracted due to their environment and can't participate actively they would not be able to study online but if someone is actively participating due to a good environment around them they will be able to study online very productively.

From my personal opinion, online learning is very effective and helped me study a lot, cleared my doubts, was very fun and productive but sometimes it gets exhausting due to so much screen time and that's why in-person studying is as important as online learning.

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Conclusion

From analyzing the data and looking at the charts, it's clear that online learning has both positive aspects and challenges when it comes to student productivity. Many students are able to stay productive and manage their time effectively while learning from home. The flexibility of online learning allows them to work at their own pace, revisit lessons when needed, and balance their schedules more freely than in a traditional classroom. At the same time, a significant number of students still feel less productive. This could be because it's harder to focus in a home environment with distractions, or because some students struggle to stay motivated without the presence of teachers and classmates.

When it comes to preferences, most students, around 80% according to the data, still favor in-person learning. This suggests that while online learning provides convenience and flexibility, it doesn't completely replace the engagement and interaction of a classroom. Speaking from my own perspective, I feel that being able to ask questions in real time, discuss with peers, and experience the classroom environment makes learning feel more engaging and effective.

The challenges faced in online learning are also very clear. Distractions, technical issues, and fatigue are the most common problems. I think this shows that the online environment requires students to be more disciplined and self-motivated. Simple strategies like using planners, scheduling study hours, taking short breaks, and minimizing distractions can make a big difference. Additionally, schools and teachers can support students by providing clear guidelines, interactive learning tools, and structured online activities to keep students engaged.

Overall, online learning isn't inherently less productive, but its effectiveness depends heavily on the student's habits, environment, and the way they interact with the learning platform.

In my opinion, online learning could be made even better by planning, participating, time-management and studying in an environment which helps students to study better and not distract them.

Looking at all the findings and reflecting on my own experience, I feel that a hybrid approach, combining online flexibility with in-person interaction, is likely the most effective way to support student productivity. It allows students to enjoy the benefits of self-paced learning while also receiving the structure, guidance, and engagement that classroom learning provides.

Finally, this research highlights that while technology can be a powerful tool for learning, it is most effective when combined with self-discipline, proper planning, and a supportive environment. Students, teachers, and schools all play a role in making online learning productive, and understanding these factors can help improve the overall experience for everyone.

 Doing this project helped me realize that online learning isn't just about technology; it also depends on how disciplined students are.

I learned that even though online classes are convenient, face-to-face interaction still plays a big role in staying motivated

This research made me understand that balancing online and in-person learning could be the best way to stay productive.

References

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