



INTEGRATING SCIENCE, THOUGHT, AND TECHNOLOGY: TOWARD AN ARTIFICIAL INTELLIGENT ENVIRONMENT

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Reducing Teacher Burnout: Leveraging ChatGPT to Automate Tasks and Improve Efficiency

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Abstract

Teacher burnout has become a serious issue in schools today, mainly because of too much work and too many administrative duties. This paper looks at how ChatGPT, a modern language model, can help reduce teacher stress by doing time-consuming tasks such as grading papers, preparing lessons, and talking to students. Using ChatGPT in daily school homeworks can help teachers save their time, feel less overwhelmed, and focus more on engaging with students and encouraging creativity. In this way, teachers can improve their well-being, and the quality and efficiency of education can also increase.

Keywords: *Teacher burnout, ChatGPT, AI in education, automation of tasks, educational technology, artificial intelligence, workload reduction, teacher health, improving efficiency, AI-based teaching.*

Teacher burnout is becoming an extreme issue in today's education system. It often includes emotional exhaustion, feelings of detachment, and a reduced sense of achievement. Many teachers are exhausted by responsibilities such as planning lessons, grading assignments, managing administrative tasks, and responding to diverse student needs. These demands can lead to significant stress and low job satisfaction, which contributes to high turnover rates and negatively affects the quality of education. In this paper, I will discuss how ChatGPT—a popular AI language model—can help reduce teacher burnout by increasing efficiency and improving overall teacher well-being.

In recent days, Artificial Intelligence (AI) has gained attention in the education sector for its potential to solve some of the challenges teachers face. One of the most promising AI tools is ChatGPT. It can be used to help automate repetitive tasks such as grading and lesson planning. When teachers use ChatGPT to handle routine responsibilities, they can dedicate more energy to meaningful work, such as helping students learn and grow.

Teaching is considered one of the highly respected professions because it shapes future generations. However, many teachers experience high levels of stress. The American Federation of Teachers (AFT) conducted a survey in 2017 and found that 61% of teachers felt "often" or "always" stressed due to their job demands. This clearly shows that workload and administrative duties are causing significant burnout among teachers (AFT, 2017).

AI, defined as computer systems designed to perform tasks usually requiring human intelligence, offers promising tools to improve the teaching experience. Examples include virtual assistants, automated grading systems, and smart learning platforms. According to research by Chanel and Chen (2020), AI tools such as adaptive learning platforms can reduce administrative responsibilities, allowing teachers to focus more on teaching itself.

One of the main benefits of AI is that it can help reduce teachers' workload. Many time-consuming tasks like grading and analyzing data can now be done by AI-powered systems. This allows educators to spend more time preparing lessons or offering individual support to students. For instance, the California Education Review (2021) reported that AI-assisted grading systems helped teachers save up to 30% of their time, giving them more opportunities for meaningful interaction with students and lowering stress levels. ChatGPT can be used to check essays for grammar, organization, and clarity, reducing the burden of grading and freeing up time for teachers to offer more detailed feedback.

Real-life and world examples support these findings. In one case, a school district in California introduced an AI-driven learning platform that gave personalized feedback to students. As a result, teachers could manage their classrooms more efficiently and experienced reduced stress levels. According to EdTech Magazine (2022), the teachers in this district reported feeling more satisfied with their jobs and way away from burned out.

However, while the benefits of AI are promising, there are concerns. Some critics argue that relying too much on AI might weaken the personal connection between teachers and students. Binns (2021) and Moorhead (2022) have both pointed out that AI should enhance—not replace—human relationships in the classroom. After all, the human touch is essential for motivating and understanding students. There are also concerns related to privacy and data security, which must be addressed to ensure ethical and safe use of AI tools in schools.

Aside from reducing workload, AI can also contribute to a better work-life balance for teachers. Automating repetitive administrative tasks gives teachers more free time outside of the classroom. This can improve their mental health and increase job satisfaction. According to a

2021 report by the National Education Association (NEA), teachers who used AI tools said their work-life balance improved, which helped their overall well-being (NEA, 2021).

As AI continues to develop, its potential to transform teaching goes up as well. Tools such as intelligent tutoring systems and virtual reality (VR) could make teaching more efficient while also enhancing student learning. Huang and Wang (2020) found that intelligent tutoring systems can adapt to each student's individual needs and provide personalized feedback. This reduces the amount of support teachers need to offer manually and lowers their workload. Still, clear policies and ethical guidelines must be created to ensure AI is used properly and doesn't damage the student-teacher relationship.

Generative AI tools like ChatGPT have the potential to greatly improve teachers' lives. They can make the time less spent on grading, lesson planning, and administrative work. It helps teachers focus on what really matters: guiding, mentoring, and inspiring their students. However, it is important to use AI tools thoughtfully. While AI can support the educational process, it cannot and should not replace the vital role teachers play in students' intellectual and personal development.

OpenAI's ChatGPT EDU, designed specifically for schools and universities, is an example of how AI can benefit both teachers and students. This tool can assist with student orientation, career advice, and help create more interactive classroom discussions. It even offers 24/7 academic support, which is especially helpful for students in remote or underfunded areas. Still, experts like Binns (2021) emphasize that we must be careful not to replace human interaction entirely, since social engagement and critical thinking skills are best developed through personal connections.

To balance the benefits of AI with the need for human mentorship, schools must ensure AI is used to complement teaching—not take over. Teachers provide emotional support, encourage curiosity, and help students think independently. These qualities cannot be replaced by machines. In my view, AI should be used to improve teaching but never substitute the important role that educators play.

Another issue that needs attention is ethics. Data privacy and academic honesty are serious concerns when using AI in schools. Educational institutions must have strict policies in place to protect student data and prevent AI tools from being used to cheat. A 2021 report from the U.S. Department of Education stressed the need for strong security practices, especially as AI becomes more common in classrooms. Also, we must make sure all students have equal access to

these tools. Without proper planning, AI could increase educational inequality, especially in low-income areas (NEA, 2021).

Over the last few years, the pressure on teachers has increased, especially after the COVID-19 pandemic. While educators were praised during the pandemic, many returned to classrooms facing teacher shortages and continued stress. According to HMH's 9th Annual Educator Confidence Report (2021), 82% of educators said they needed a better workload balance. Jamie Lewsadder, a school technology leader, pointed out that society often underestimates the complexity of teaching today, especially with the rise of diverse student backgrounds and learning needs (Lewsadder, 2021).

AI is being explored as a solution to ease these pressures. A report by McKinsey & Company (2020) estimated that 20% to 40% of teachers' tasks—such as lesson planning, grading, and record-keeping—could be automated using AI. Francie Alexander, the Chief Research Officer at HMH, outlined four main ways AI supports teachers: increasing productivity, improving communication, managing data, and providing instructional support (Alexander, 2020).

Many popular platforms like Microsoft 365 and Google Workspace for Education now include AI features. Microsoft's Reading Coach, for example, creates custom reading programs for students. Google's tools help automate things like class creation and reminders. Other tools like GoGuardian and Merlyn Mind use AI to create personalized learning experiences and spot gaps in student understanding, which helps teachers tailor their instruction.

Merlyn Mind is another helpful AI assistant for teachers. It works with classroom hardware to allow teachers to control devices using voice commands, saving time and keeping the focus on students. David Miyashiro, a superintendent in California, emphasized the importance of giving teachers access to tools that keep up with modern tech standards. According to the California Education Review (2021), schools that used AI platforms saw a 30% reduction in teachers' time spent on admin tasks, improving both job satisfaction and performance.

Of course, data privacy remains a serious issue. Parents and teachers worry about student information being exposed or misused. Tools like Merlyn Mind and SchoolJoy address these concerns by using private, secure language models that protect student data (Lewsadder, 2021).

Many teachers have already started using ChatGPT in their classrooms with encouraging results. For example, a high school English teacher in New York used ChatGPT to create writing prompts that matched students' personal interests. This made writing assignments more engaging

and sparked creativity. A history teacher in California used ChatGPT to simplify dense readings for students who were still learning English, making it easier for them to understand the content.

In science classes, teachers used ChatGPT to generate analogies and metaphors to explain complicated topics like DNA or gravity. This helped students with different learning styles grasp difficult concepts more easily. Educators also reported saving several hours a week by using AI for lesson planning, giving them more time for student support and professional development.

At universities, professors have used ChatGPT to simulate real-life situations. For example, law students can practice conversations with a “client” played by ChatGPT. Medical students can simulate discussing symptoms with a “patient.” This helps students improve their communication and problem-solving skills in a safe, controlled environment.

Looking ahead, it’s clear that AI will play a bigger role in education. Tools like ChatGPT will become even more advanced, eventually integrating fully with school systems and classroom platforms. This will allow for even more personalized and efficient learning experiences.

To make this possible, school leaders and policymakers need to invest in infrastructure, teacher training, and responsible innovation. Teachers should be involved in decisions about how AI is used in classrooms, and schools should test new tools carefully before using them widely. This ensures that technology actually helps teachers rather than creating new problems.

Supporting teachers with smart tools like ChatGPT is not just a nice idea—it’s necessary. When we reduce teacher burnout, we create better classrooms for everyone.

In conclusion, while artificial intelligence is often viewed through the lens of student outcomes or technological innovation, its most transformative role may lie in its ability to humanize the teaching profession. When used ethically and thoughtfully, AI tools like ChatGPT offer an opportunity to restore balance to a system that has stretched teachers too thin for too long. By giving educators the time and support they need, we allow them to bring their full creativity, empathy, and expertise to the classroom. This not only elevates their professional experience but also ensures that students receive the kind of inspired, attentive instruction that can shape their futures. Now more than ever, it is time to embrace AI as a partner in the noble and essential mission of education.

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