



Generative AI business use cases

Education

Table of contents

Introduction	1
Addressing risk	2
Unlocking potential	3
How to use this document	4
Business use cases	
Personalized Learning Plans	5
Performance Analysis	9
Parent and Guardian Communications	13
Policy and Guideline Generation	17
Additional generative AI use cases for Education	21
Course and Lesson Design	21
General Administration and Communications	22
Grading and Assessment	22
Resource Planning	23
Adaptive Testing	23
Conclusion	24
Appendix	25

Generative AI is revolutionizing the field of education, offering remarkable advancements in personalized learning, curriculum development, student and group assessment, and engagement. By leveraging this technology, school systems and educational institutions are achieving greater efficiency and effectiveness, enabling educators, administrators, and staff to focus on what matters most - **fostering student development.**

5 hours

average time per week a teacher can save with Liminal-secured generative AI

\$24.7M

average annual efficiency gains from Liminal-secured generative AI in a 10,000-employee educational system

65%

of educators are already utilizing generative AI¹

¹ <https://www.wired.com/story/teachers-are-going-all-in-on-generative-ai/>

Address the risks

As educational institutions increasingly integrate generative AI into their systems, they face significant challenges concerning data security and privacy. Safeguarding sensitive student information, including PII, PHI, and other confidential information like personal and academic records, is paramount. A comprehensive security strategy, combining strong policies, procedures, and technology is necessary to guard against unauthorized data sharing and compliance with regulations like FERPA and other data protection laws.

01

PHI/PII exposure

Liminal protects against the inadvertent sharing of compliance-defined terms with Large Language Models (LLMs).

02

Sensitive Data + IP leaks

Liminal allows you to define and safeguard unique intellectual property and sensitive corporate data types across all interactions with generative AI.

03

Inappropriate exchanges

Liminal defends against the ingestion or output of offensive, discriminatory, or derogatory content.

Liminal exists to help organizations unlock the **potential of generative AI** by addressing the data privacy and security risks inherent with this technology.

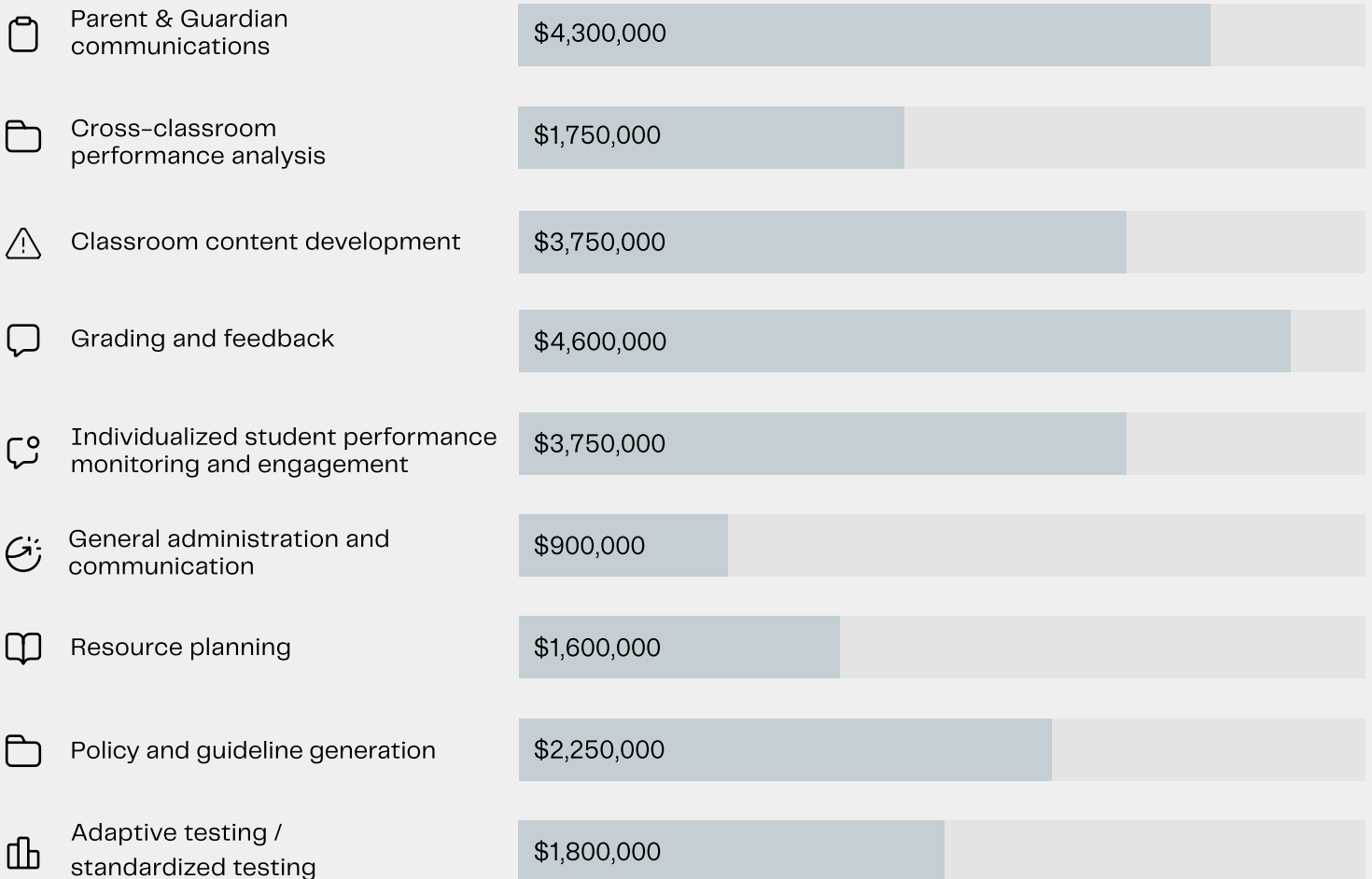
With Liminal, organizations have complete control over the data submitted to large language models (LLMs). Whether that be through direct interactions, through the consumption of off-the-shelf software with generative AI capabilities, or via the generative AI-enabled applications built in-house, Liminal's unique horizontal platform helps ensure compliance-defined data like PHI, PII, and PCI - as well as organization-specific data like intellectual property and trade secrets - aren't leaked outside your organization.

Across every generative AI model, in every application you use, and in every application you're building.

Unlock the potential

This document showcases several real-world applications of generative AI deployed in the education field today. For each scenario, we describe the use case, the problem it addresses, its benefits, and the ROI that a Liminal-protected generative AI solution can offer.

ROI from Liminal ranges anywhere from **6x–30x on a single use-case**, and each subsequent use case only compounds your return.





To help **estimate the implementation effort** and **assess the business value** of deploying specific use cases, we've developed a high-level schema for evaluation.

Effort

Simple

Generative AI solution can be implemented in a matter of hours

Moderate

Solution implementation can typically be completed within a few weeks

Detailed

Planning and solution deployment is more complex and can take several months

Value

Low

ROI on the Liminal-enabled generative AI solution is 1x-3x

Medium

ROI on the Liminal-enabled generative AI solution is 4x-6x

High

ROI on the Liminal-enabled generative AI solution is greater than 7x

**Please note: these implementation timelines refer to the work required to research and deploy a generative AI solution. The deployment of Liminal is a one-time process and can be completed in under an hour.*

Use case

Personalized Learning Plans

Department/Resource: **Educators**

Implementation Effort **Simple**

Business Value Impact **High**



Individualized student performance monitoring and engagement

Liminal enables educators to **create personalized learning plans 33% faster**, resulting in a savings of **over 30 hours per educator each year**, time that can be redirected to further supporting student development.



Personalized Learning Plans

What

Utilizing learner-specific education plans is extremely valuable for addressing individual needs, increasing engagement, and driving greater academic success. However, the process of creating these plans can be arduous, requiring significant time and effort to tailor instruction to each student's unique requirements.

With Liminal's secure platform, educators can leverage generative AI to drastically reduce the time commitment associated with assessing performance and crafting personalized learning plans.

How

Leveraging Liminal Spaces, teachers can quickly and efficiently use generative AI to parse through individual student performance to develop tailored recommendations and intervention plans.

 16 terms detected

Analyze the following 10th grade students and group them based on common patterns. Then create a series of personalized education plans for students at [Acme High School](#), focusing on tailoring curriculums to each student's academic strengths, weaknesses, interests, and career aspirations:

Term redacted

1. [Tara Singh](#), Academic Strengths: Literature, Social Studies; Struggles: [Physics](#), Chemistry; Interests: Journalism, Theater; Career Aspiration: [Journalist](#); Synthetic Student ID: [1002301](#).
2. [Colby Chen](#), Academic Strengths: Mathematics, Computer Science; Struggles: History, Art; Interests: Coding, Chess Club; Career Aspiration: [Software Developer](#); Synthetic Student ID: [1002402](#).
3. [Amelia Washington](#), Academic Strengths: Biology, English; Struggles: Foreign Languages, Music; Interests: Environmental Club, Creative Writing; Career Aspiration: [Biologist](#); Synthetic Student ID: [1002503](#).
4. [Ibrahim Al-Khalil](#), Academic Strengths: Physics, Mathematics; Struggles: Physical Education, Drama; Interests: Robotics, Science Olympiad; Career Aspiration: [Aerospace Engineer](#); Synthetic Student ID: [1002604](#).
5. [Lucas Martinez](#), Academic Strengths: History, Social Studies; Struggles: Mathematics, Science; Interests: Soccer, Student Council; Career Aspiration: [Political Scientist](#); Synthetic Student ID: [1002705](#).





Personalized Learning Plans

Output

The cleansed prompt is then submitted, and the generative AI model produces an output. Through a process called rehydration, outputs are reviewed upon return, and the protected terms are re-seeded back to their submission state. Each of the identified terms that was detected and protected prior to submission has been highlighted for display purposes.




Entire time spent creating personalized learning plans:

Less than 1 minute

Acme High School

Space

Personalized Learning Plans 



Certainly! Here are personalized education plans for the listed students based on their academic strengths, weaknesses, interests, and career aspirations.

Personalized Education Plan for [Tara Singh](#)

Academic Strengths: Literature, Social Studies Struggles: Physics, Chemistry Interests: Journalism, Theater Career Aspiration: [Journalist](#) Synthetic Student ID: [1002301](#)

Education Plan:

1. Literature and Social Studies:

- Enroll [Tara](#) in advanced literature and social studies classes to foster her strengths.
- Encourage participation in debate clubs, which complement both her interests and academic strengths.

2. Science Struggles:

- Provide one-on-one tutoring or find a study group for physics and chemistry to help [Tara](#) understand fundamental principles.
- Demonstrate the importance of physics and chemistry in everyday life and journalism to increase relevance and motivation.

3. Special Interests and Aspirations:

- Encourage [Tara](#) to join the school newspaper or internship programs in local media to gain first-hand experience in journalism.
- Offer theater arts electives to support her interest in theater which may also enhance her public speaking skills and creativity.

4. Career Readiness:

- Introduce [Tara](#) to journalists or have guest speakers from the field to discuss the career path and requirements.
- Assign projects that involve research and reporting on current events to practice journalistic skills.





Educators

Personalized Learning Plans

Detailed Assumptions and Impact

10k	Total Employees
5000	Educators
\$25	Educator Organizational Cost Per Hour
185	Number of Working Days Per Educator Per Year
30	Minutes Spent Creating Personalized Learning Plans Per Educator Per Day

Personalized Learning Plans

Without Liminal	30 mn per day / per educator	90 hrs per year / per educator
With Liminal + Generative AI model (GPT-4, Gemini, or any other model)	33% faster	30 hrs saved per educator per year

150,000
hours saved

\$3.75M
annual efficiency gain

 Implementation time: less than an hour*

*Really, just 1 hour to get this into the hands of your team. For more details on implementation, see Appendix A






Use case

Performance Analysis

Department/Resource: Administration

Implementation Effort Simple

Business Value Impact Medium

 Cross-classroom performance analysis

With Liminal, district administrators can analyze student, group, and class performance **33% faster**, which equates to **over 70 hours per team member per year** that can instead be devoted to enhancing learning environments for students and supporting educator success.



Performance Analysis


What

Analyzing the performance of student groups is essential, as it enables educators and administrators to pinpoint learning gaps, inform curriculum choices, and identify students who may need extra support. While extremely valuable, synthesizing and interpreting performance data can be challenging and time-consuming.

Leveraging Liminal, administrators can safely use generative AI to efficiently analyze data, identify patterns, and develop action plans based on student performance.

How

With Liminal Spaces, your administrative team can use generative AI to quickly analyze individual, class, and student body assessment data to gain insights on outcomes, curriculum efficacy, and opportunities for improvement.

 12 terms detected

Analyze student performance data across high school mathematics classes. Identify patterns in test scores, homework completion rates, and in-class participation across all teachers. Create a list of students falling behind and suggest tailored interventions. **Term masked** students at risk of falling behind:

- Student ID: S001, Name: Alex Johnson, Age: 15, Grade: Sophomore, Math Score: 85, Homework Completion: 90%, Participation: High
- Student ID: S002, Name: Mia Smith, Age: 16, Grade: Sophomore, Math Score: 78, Homework Completion: 95%, Participation: Medium
- Student ID: S003, Name: Liam Brown, Age: 15, Grade: Sophomore, Math Score: 65, Homework Completion: 80%, Participation: Low
- Student ID: S004, Name: Olivia Garcia, Age: 16, Grade: Sophomore, Math Score: 92, Homework Completion: 100%, Participation: High





Performance Analysis

Output

The cleansed prompt is then submitted, and the generative AI model produces an output. Through a process called rehydration, outputs are reviewed upon return, and the protected terms are re-seeded back to their submission state. Each of the identified terms that was detected and protected prior to submission has been highlighted for display purposes.



Entire time spent developing performance analysis:

Less than 1 minute

Acme High School

Space

Performance Analysis



Certainly! Using the provided names, here's an analysis of the student performance data, along with intervention strategies tailored for students at risk of falling behind.

Patterns Identified:

- **Math Scores:** There is a wide distribution of math scores ranging from 60 to 95. **Students like [Olivia Garcia](#), [Ava Anderson](#), [Amelia Harris](#), [Evelyn King](#), and [Aria Scott](#) have scored particularly high, which often correlates with their high homework completion rates and high participation levels.
- **Homework Completion:** ** High homework completion rates are generally associated with higher math scores. This pattern suggests that students like [Alex Johnson](#), [Mia Smith](#), [Olivia Garcia](#), and [Ava Anderson](#), who consistently complete their homework, tend to perform better in tests.
- **Participation:** High participation levels are often seen in students with higher math scores and homework completion rates. For example, [Alex Johnson](#), [Emma Martinez](#), [Ava Anderson](#), and [Isabella Perez](#) are engaged in class and also show strong academic performance.

Students at Risk:

Students at risk include those with lower math scores, lower homework completion rates, and lower participation levels. Targeted interventions would be beneficial for these students.

Intervention Strategies:

1. For Low Scorers: [Liam Brown](#), [Lucas Hernandez](#), [Logan Martin](#), [Benjamin Wright](#), and [Sofia Adams](#) are scoring below the class average in mathematics. They may benefit from additional support such as one-on-one tutoring or after-school help sessions. It's essential to identify their weaknesses in specific mathematical areas and focus on those during these sessions.
2. For Low Homework Completion: [Lucas Hernandez](#), [Logan Martin](#), [Benjamin Wright](#), and [Sofia Adams](#) have homework completion rates that could be improved. These students might be struggling with factors outside of school or lack study skills. It would be helpful to offer them time-management workshops or study skills training, and a designated study space at school if needed.



Performance Analysis

Administration

Detailed Assumptions and Impact

10k	Total Employees
500	District Administrators
\$50	District Administrator Organizational Cost Per Hour
220	Number of Working Days Per Administrator Per Year
60	Time Spent on Performance Analysis Per Administrator Per Day

Performance Analysis

Without Liminal	60 mn per day / per administrator	220 hrs per year / per administrator
With Liminal + Generative AI model (GPT-4, Gemini, or any other model)	33% faster	70 hrs saved per administrator per year

35,000
hours saved

\$1.75M
annual efficiency gain

Implementation time: less than an hour*

*Really, just 1 hour to get this into the hands of your team. For more details on implementation, see Appendix A



Use case

Parent and Guardian Communications

Implementation Effort Simple

Business Value Impact High



Parent & Guardian communications

Department/Resource: Educators

Liminal enables educators to develop student-specific messaging for parents and guardians **40% more quickly, saving over 30 hours per educator per year** that can instead be focused on increasing student competency.



Parent and Guardian Communications

Educators

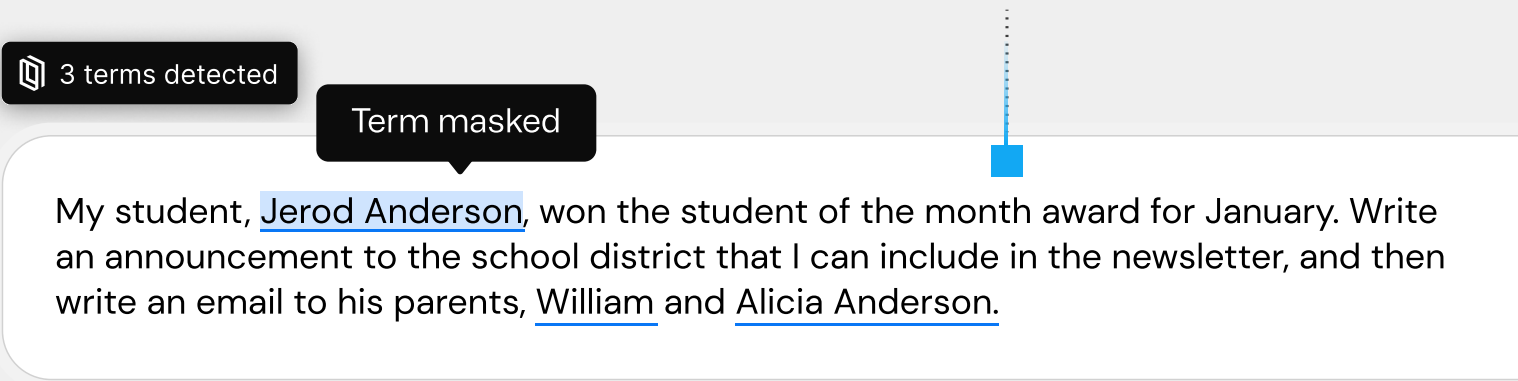
What

Personalized communication with parents and guardians is important as it fosters a collaborative approach to education, ensuring families are informed and involved in their student's learning journey. However, crafting these individualized messages can be time-consuming, requiring careful consideration of each student's unique circumstances and progress.

With Liminal, teachers and administrators can securely utilize generative AI tools to efficiently generate student-specific, context-specific, and situation-specific communications.

How

Leveraging Liminal Spaces, staff can use generative AI to quickly synthesize student information, performance results, and individual learning objectives to create learner-specific communications to parents and guardians.



3 terms detected

Term masked

My student, Jerod Anderson, won the student of the month award for January. Write an announcement to the school district that I can include in the newsletter, and then write an email to his parents, William and Alicia Anderson.

The terms underlined in blue are identified data types that have been detected as sensitive, and to which organizational policy is being applied. The hover state boxes over each identified term highlights how that data is being treated prior to its submission to the generative AI tool.





Parent and Guardian Communications

Educators

Output

The cleansed prompt is then submitted, and the generative AI model produces an output. Through a process called rehydration, outputs are reviewed upon return, and the protected terms are re-seeded back to their submission state. Each of the identified terms that was detected and protected prior to submission has been highlighted for display purposes.



Entire time spent writing a personalized parent and guardian communication:

Less than 1 minute

Acme High School

Space

Personalized Parent and Guardian Communication



Announcement for School District Newsletter:

We're excited to share that Jerod Anderson from [School Name] has earned the Student of the Month award for January! This recognition highlights Jerod Anderson's dedication to academic excellence and positive contributions to our school culture. Join us in applauding Jerod Anderson's achievements and encouraging their continued success. Congratulations, Jerod Anderson!

Email to Jerod Anderson's Parents:

Subject: Congratulations on Jerod Anderson's Achievement!

Alicia and William Anderson,

I am delighted to inform you that Jerod Anderson has been named Student of the Month for January at [School Name]. This honor reflects their hard work and positive impact on our school community.

We will feature Jerod Anderson's accomplishment in our district newsletter to celebrate with the entire community. Your support has played a significant role in their success, and we are grateful for your involvement in our school family.

Please pass on our hearty congratulations to Jerod Anderson!

Best,

[Your Name] [Your Position] [School Name] [Contact Information]





Parent and Guardian Communications

Educators

Detailed Assumptions and Impact

10k	Total Employees
5k	Educators
\$25	Educator Organizational Cost Per Hour
185	Number of Working Days Per Educator Per Year
30	Minutes Spent Writing Parent and Guardian Communications Per Educator Per Day

Creating Personalized Parent + Guardian Communications

Without Liminal	30 mn per day / per educator	90 hrs per year / per educator
With Liminal + Generative AI model (GPT-4, Gemini, or any other model)	40% faster	35 hrs saved per educator per year

175,000

hours saved

\$4.3M

annual efficiency gain



Implementation time: less than an hour*

*Really, just 1 hour to get this into the hands of your team. For more details on implementation, see Appendix A






Use case

Policy and Guideline Generation

Department/Resource: **Administrators**

Implementation Effort **Simple**

Business Value Impact **High**

 Policy and guideline generation

With Liminal, Administrators can **save 25 minutes per day** crafting mission critical content, which translates to **over 90 hours per Administrator per year** that can be reinvested into further improving the educational environment.



Policy and Guideline Generation

Administrators

What

Effective policies and guidelines are crucial for school systems and educational institutions as they provide a structured framework for consistent and fair practices, ensuring a safe and conducive learning environment for all students. However, formulating and implementing these policies can be challenging due to the need to accommodate diverse educational needs, rapidly evolving educational technologies, and varying socio-cultural contexts within the student body.

With Liminal, administrators can securely use generative AI to quickly create comprehensive policy documentation that communicates relevant guidelines, approaches, and practices.

How

Leveraging Liminal Spaces, administrative staff can effectively employ generative AI to analyze educational data and trends, understand relevant state and local regulations, and create tailored policy documentation that addresses the specific needs of the educational community.

5 terms detected

Analyze existing absenteeism rates and draft new attendance guidelines that are realistic, enforceable, and supportive of students' needs. The goal is to create a set of policies that not only tackle logistical hurdles but also support students in their academic challenges, thus enhancing overall attendance and engagement.

Term masked

Jayden Turner, ID: PG1016, Grade: 11
Truancy Rate: 11%
Worst Subject: English
Best Subject: Mathematics
Extracurriculars: Coding Club
Address: 456 Oak Lane, Pine Grove, IN 46298
Distance from School: 12 miles

Leila Parke, ID: PG1017, Grade: 9
Truancy Rate: 6%
Worst Subject: Physical Education
Best Subject: Biology
Extracurriculars: Science Olympiad



Output

The cleansed prompt is then submitted, and the generative AI model produces an output. Through a process called rehydration, outputs are reviewed upon return, and the protected terms are re-seeded back to their submission state. Each of the identified terms that was detected and protected prior to submission has been highlighted for display purposes.



Entire time spent creating foundation of an attendance guideline:

Less than 1 minute

Acme High School

Space

Policy and Guideline Generation



Based on the provided data, it is evident that truancy rates vary among the three individuals. To draft new attendance guidelines that are realistic, enforceable, and supportive of students' needs, the following factors should be taken into consideration:

1. Location and Distance:

- Recognize that distance from school can be a contributing factor to truancy rates. In the case of [Jayden Turner](#) and [Tyler Evans](#), who live a considerable distance away from school, it may be necessary to explore transportation options or provide additional support for these students.

2. Subject Performance:

- Identify the worst subjects for each student. In the case of Jayden Turner, English is their worst subject, while for Leila Parke, it is Physical Education, and for Tyler Evans, it is Mathematics. Addressing the specific challenges in these subjects can help improve student engagement and attendance.

3. Extracurricular Involvement:

- Acknowledge the extracurricular activities that students are involved in. Jayden Turner is part of the Coding Club, Leila Parke participates in Science Olympiad, while Tyler Evans does not have any extracurriculars. Consider the impact of extracurricular involvement on student motivation and attendance.

Based on these factors, the following attendance guidelines can be drafted.





Detailed Assumptions and Impact

10k	Total Employees
500	District Administrators
\$50	District Administrator Organizational Cost Per Hour
220	Number of Working Days Per Administrator Per Year
180	Minutes Spent Developing Policies Per Administrator Per Day

Develop Relevant Guidelines and Policies

Without Liminal	100 mn per day / per administrator	360 hrs per year / per administrator
With Liminal + Generative AI model (GPT-4, Gemini, or any other model)	25% faster	90 hrs saved per administrator per year

45,000
hours saved

\$2.25M
annual efficiency gain

 Implementation time: less than an hour*

*Really, just 1 hour to get this into the hands of your team. For more details on implementation, see Appendix A

Additional generative AI use cases for Education

The use cases detailed in this document offer a solid foundation for getting started with generative AI. As your organization experiences productivity improvements from initial implementations, more applications will emerge.

To assist in further maximizing generative AI deployments, here are several additional use cases for consideration.

Course and Lesson Design

Generative AI can analyze student proficiency and streamline the design and organization of appropriate course materials, including syllabi, lesson plans, presentations, lecture notes, and assessments.

10k	Total Employees
5k	Educators
\$25	Organizational Cost Per Hour
185	Number of Working Days Per Educator Per Year

Implementation effort	Business value impact	Time Spent on Task Without Gen AI (per resource)	Time Savings with Liminal (per resource)	Annual Capacity Savings	Annual Efficiency Gain
Simple	High	30 Minutes/Day	10 Minutes/Day	150,000 hours	\$3.75M

General Administration and Communications

From summarizing PTA meeting notes, to crafting newsletters and policy position statements, Generative AI can help expedite the summarization of information and the creation of thoughtful and relevant communications, helping administrative staff members to be more productive.

10k	Total Employees
500	Administrators
\$50	Organizational Cost Per Hour
220	Number of Working Days Per Administrator Per Year

Implementation effort	Business value impact	Time Spent on Task Without Gen AI (per resource)	Time Savings with Liminal (per resource)	Annual Capacity Savings	Annual Efficiency Gain
Simple	High	40 Minutes/Day	10 Minutes/Day	18,000 hours	\$900K

Grading and Assessment

Generative AI can automate the evaluation of student responses, and provide quick, consistent and detailed feedback.

10k	Total Employees
5k	Educators
\$25	Organizational Cost Per Hour
185	Number of Working Days Per Educator Per Year

Implementation effort	Business value impact	Time Spent on Task Without Gen AI (per resource)	Time Savings with Liminal (per resource)	Annual Capacity Savings	Annual Efficiency Gain
Moderate	High	60 Minutes/Day	12 Minutes/Day	185,000 hours	\$4.6M

Resource Planning

Generative AI can analyze data trends to predict future needs and optimize budget allocation for staffing, facilities, and educational materials.

10k	Total Employees
500	Administrators
\$50	Organizational Cost Per Hour
220	Number of Working Days Per Administrator Per Year

Implementation effort	Business value impact	Time Spent on Task Without Gen AI (per resource)	Time Savings with Liminal (per resource)	Annual Capacity Savings	Annual Efficiency Gain
Moderate	High	90 Minutes/Day	18 Minutes/Day	33,000 hours	\$1.6M

Adaptive Testing

Generative AI can help facilitate student-specific assessments by automatically generating questions tailored to a student's proficiency level and adapting the difficulty based on their responses, thereby providing more personalized assessments that can enhance learning outcomes.

10k	Total Employees
5k	Educators
\$25	Organizational Cost Per Hour
185	Number of Working Days Per Educator Per Year

Implementation effort	Business value impact	Time Spent on Task Without Gen AI (per resource)	Time Savings with Liminal (per resource)	Annual Capacity Savings	Annual Efficiency Gain
Detailed	High	20 Minutes/Day	5 Minutes/Day	75,000 hours	\$1.8M

Conclusion

Generative AI is a productivity game-changer for the field of education. The examples highlighted in this document represent just a few of the numerous applications of this cutting-edge technology in enhancing educational processes. By integrating these tools with appropriate privacy and security measures, educational institutions can significantly improve teaching and learning efficiency, personalize educational content, streamline administrative tasks, and more effectively address the diverse needs of students.

Security is the first step in any generative AI journey

As the significance of generative AI grows, it's crucial for organizations to establish a comprehensive strategy for data privacy and security that includes policy, procedures, and technology.

Liminal serves as this essential technology layer, offering a comprehensive security solution for insurance organizations looking to deploy generative AI. Liminal's unique horizontal platform provides cybersecurity and risk professionals complete control over data management in any generative AI interaction.

Liminal works across every generative AI model, in every application you use, and in every application you're building - and can be deployed in less than an hour.

To explore your specific use cases and the impact Liminal can help drive, visit liminal.ai/start

Appendix A

To assist in estimating the effort needed for deploying specific use cases within your organization, we've created a high-level schema to outline the time required for implementation.

Please note: these timelines refer to the work required to research and deploy a generative AI use case solution. The initial deployment of Liminal is a one-time process and can be completed in under an hour.

Simple Generative AI solution can be implemented in a matter of hours

Moderate Solution implementation can typically be completed within a few weeks

Detailed Planning and solution deployment is more complex and can take several months

Each of the detailed use cases presented in this document are classified as Simple implementations.

For each, the most efficient strategy is to leverage Liminal Spaces to securely enable direct chat interactions with Azure OpenAI, Google Gemini, GPT-3.5, GPT-4, Claude 2, or any other generative AI model.

Setup

- 1 License a generative AI model (or models) for your organization
- 2 Share the API keys for those models with Liminal via the Liminal Admin Console
- 3 Determine which users have access to which models (can be done via IdP integration or on a one-off basis)
- 4 Set your security policies around what types of data can be shared, and how that data should be treated

Appendix A (cont.)

From here, your designated users can use Liminal Spaces to securely leverage generative AI for creation of personalized learning plans, performance analysis, parent and guardian communications, and district policy creation - all while helping ensure your security policies are enforced and your sensitive data remains protected.

To get started, request a demo, or discuss your specific use cases, visit [**liminal.ai/start**](https://liminal.ai/start).



Liminal empowers regulated enterprises to securely deploy and use generative AI. With Liminal, organizations have complete control over data privacy, security, and sovereignty - across any generative AI model, in every application you use, and in every application you build. Learn more about horizontal security and Liminal by visiting [**liminal.ai**](https://liminal.ai).