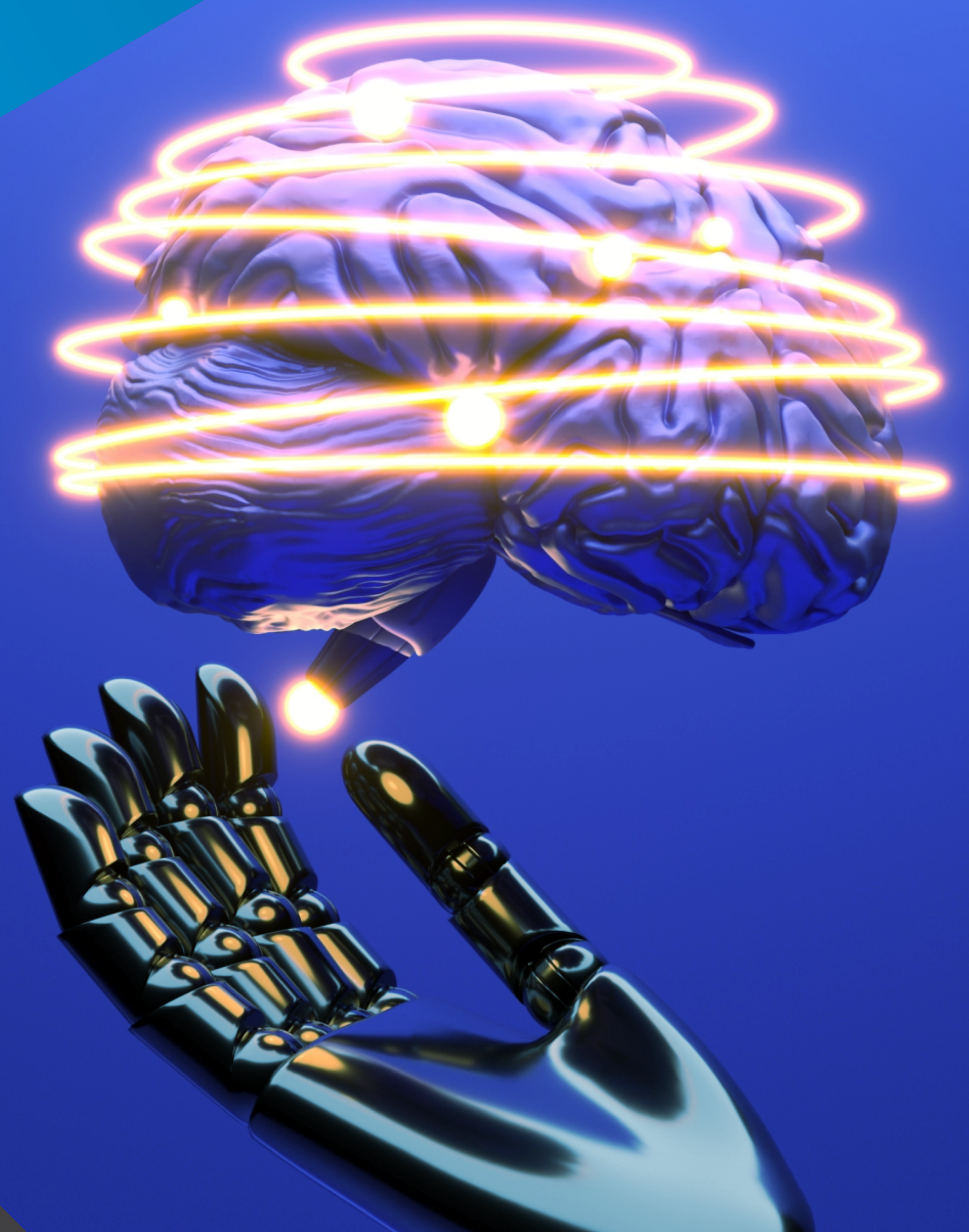


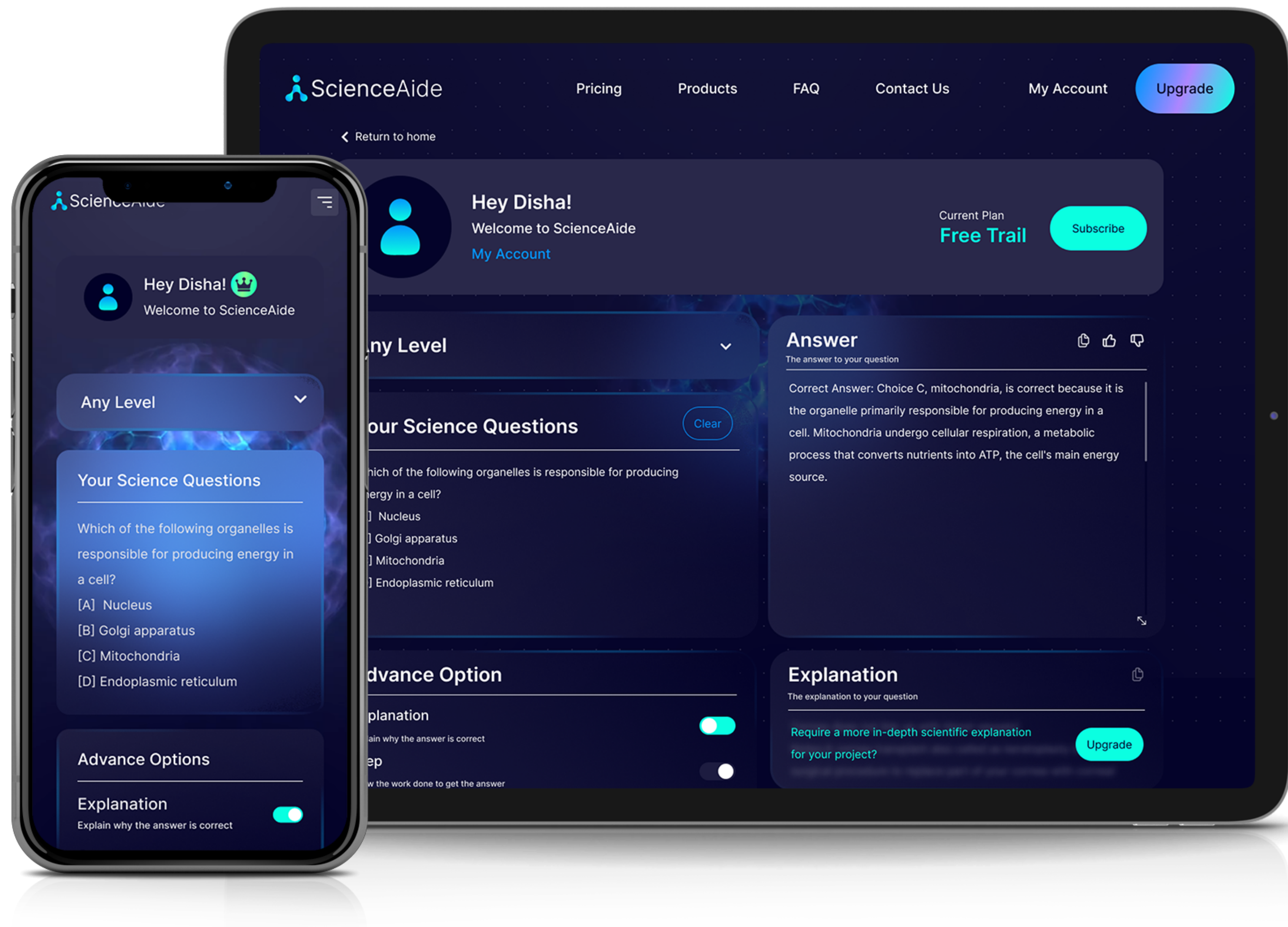
# AI Powered Tutor for Science Students

---

## CASE STUDY



# ScienceAide



ScienceAide is an AI tutor designed to assist and support students in learning various scientific subjects. Students can ask questions, and ScienceAide will provide relevant answers based on its knowledge base. It combines the capabilities of AI technology with scientific knowledge to provide personalized and interactive tutoring experiences.

The goal of ScienceAide is to facilitate learning, enhance engagement, and provide personalized support to students studying various scientific disciplines, such as Physics, Chemistry, Biology, Mathematics, or any other branch of science.

## Overview

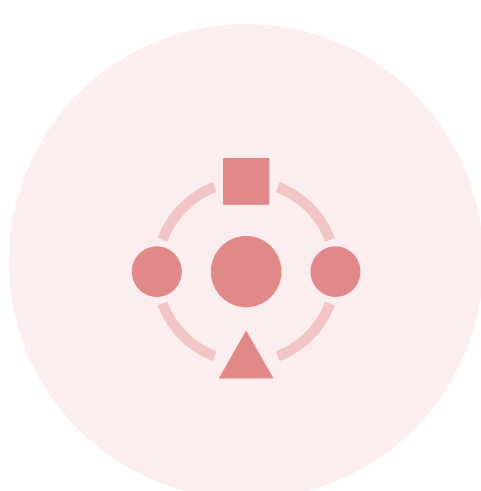
The ScienceAide team was able to develop a highly advanced web application that used the best technology such as NodeJS, MongoDB(database) for strong and powerful backend and ReactJS for frontend. This project, which our Fortunesoft team undertook, had the goal of outperforming similar current systems. By utilizing these leading technologies that our team was able to determine as the greatest fit for the project, our team of specialists was able to provide these advantages to the ScienceAide users.



**Personalized learning:** ScienceAide, the AI tutor can adapt to the individual needs of each student. It can assess a student's knowledge, skills, and learning style and provide customized content and recommendations accordingly.



**Zero Response Time:** ScienceAide has zero response time, users feel like they are interacting with a real-time system. This leads to a more satisfying and engaging user experience.



**Adaptive learning:** ScienceAide adapts the difficulty of questions based on the student's progress and performance. This ensures that the student is challenged but not overwhelmed, and that they are always learning at their optimal level.



**Data privacy and security:** ScienceAide prioritizes the privacy and security of user data, implementing robust measures to protect personal information and ensure a safe learning environment.



**24/7 availability:** ScienceAide is available anytime, anywhere, providing round-the-clock access to learning resources and support. Students can study at their own pace and convenience.



**Scalability:** ScienceAide is scaled to meet the needs of any size school or organization. This means that it can be used by individual students, parents, teachers, small classes, or large schools.



**Natural language processing:** ScienceAide can understand and respond to natural language queries, allowing students to ask questions, seek clarification, and engage in conversations as if they were interacting with a human tutor.



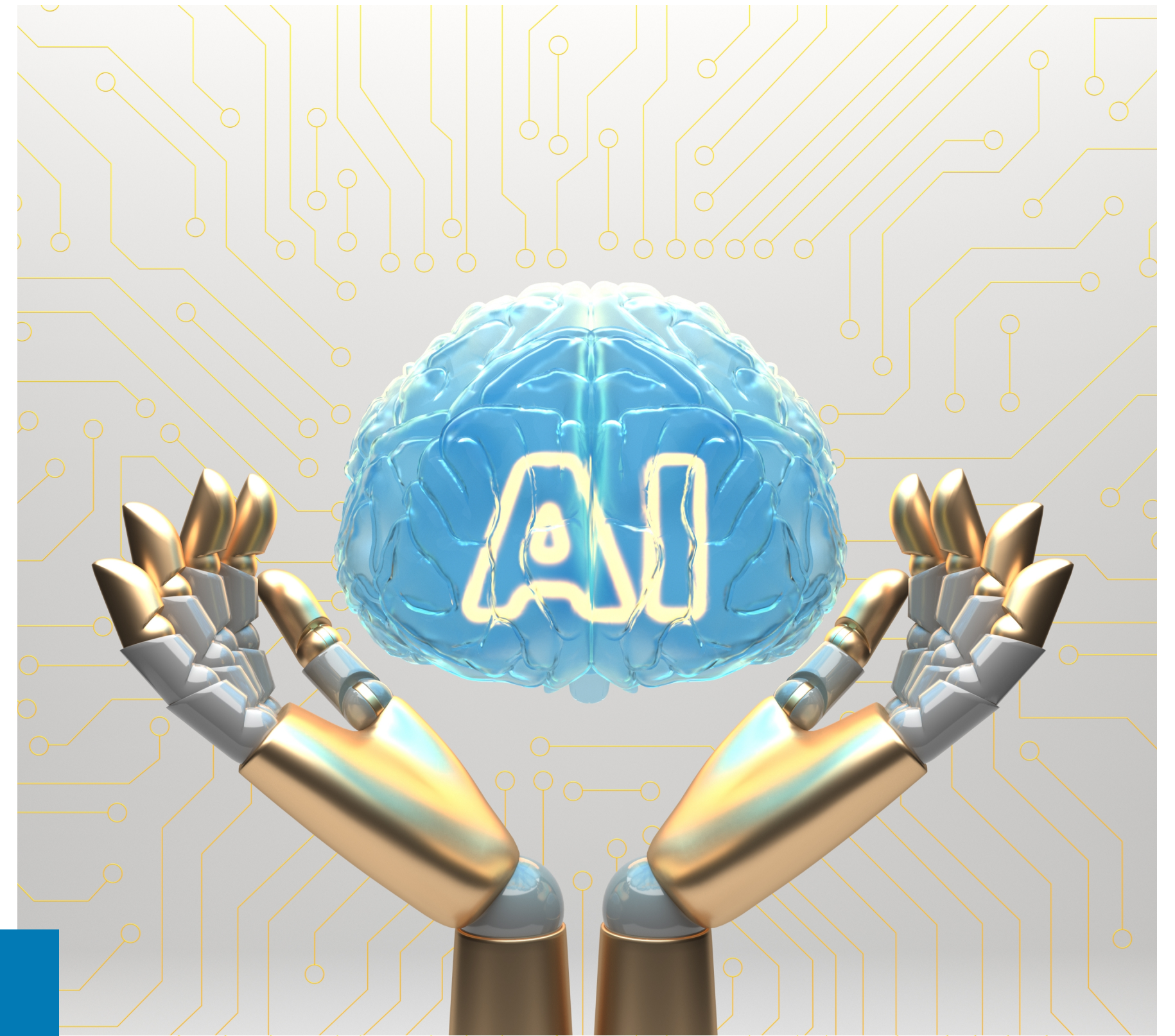
**Personalized User Onboarding:** ScienceAide increases user engagement by making the onboarding process more relevant and interesting to each individual user.

The in-built CRM helps to improve student engagement, increase productivity, and provide better data insights. This can lead to a more effective and efficient tutoring experience for everyone involved.



# The Challenge

Limited access to personalized guidance: Without ScienceAide-AI tutor, students may not have access to personalized guidance tailored to their specific learning needs and pace. They may struggle to find appropriate explanations, examples, or assistance when they encounter difficulties.



Limited access to personalized guidance: Without ScienceAide-AI tutor, students may not have access to personalized guidance tailored to their specific learning needs and pace. They may struggle to find appropriate explanations, examples, or assistance when they encounter difficulties.

Limited availability of learning resources: Without ScienceAide-AI tutor, students may have limited access to such resources, making it harder to engage with and comprehend complex scientific concepts.

Difficulty in finding relevant and up-to-date information: ScienceAide-AI tutor has access to vast knowledge bases and can provide accurate and up-to-date information. Students without ScienceAide may need to search for information independently, which can be time-consuming and may lead to unreliable or outdated sources.

Limited availability of support outside of class: In traditional learning environments, teachers are often available during class time for immediate help. However, outside of class, students may have limited access to guidance or assistance without an ScienceAide-AI tutor, which can hinder their progress.

Challenges in self-regulated learning: ScienceAide-AI tutor can assist students in developing self-regulated learning skills, such as setting goals, monitoring progress, and reflecting on learning experiences. Without ScienceAide students may need to independently develop and strengthen these skills, which can be challenging without guidance.

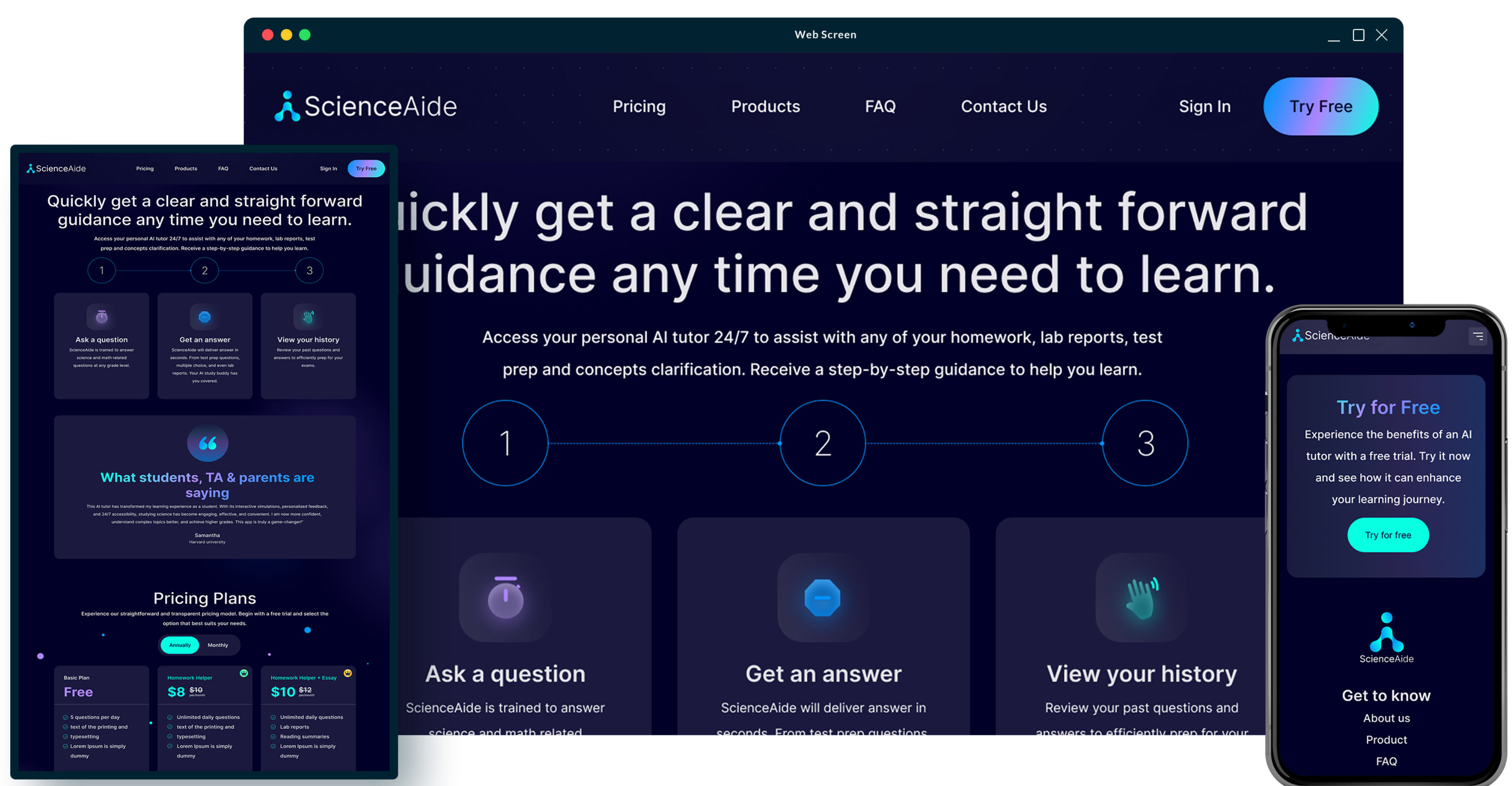
These challenges highlight the benefits that ScienceAide can provide in terms of personalized support, guidance, and interactive learning experiences.



# Our Solution

Our team at FortuneSoft, provided an AI tutor solution that revolutionizes the way students learn science. ScienceAide combines cutting-edge technology with comprehensive scientific knowledge to offer an exceptional learning experience. With this solution, students gain access to personalized guidance tailored to their unique needs and learning styles. The AI tutor provides instant feedback, ensuring that students receive timely support and can correct their mistakes effectively.

Through interactivity in simulations and virtual experimentation, students can explore scientific phenomena in a hands-on and immersive manner, fostering deeper comprehension. ScienceAide adapts the content sequence to match each student's progress, optimizing their learning path. With features like natural language interaction, concept mapping, and reinforcement learning, this solution fosters critical thinking, creativity, and problem-solving skills.



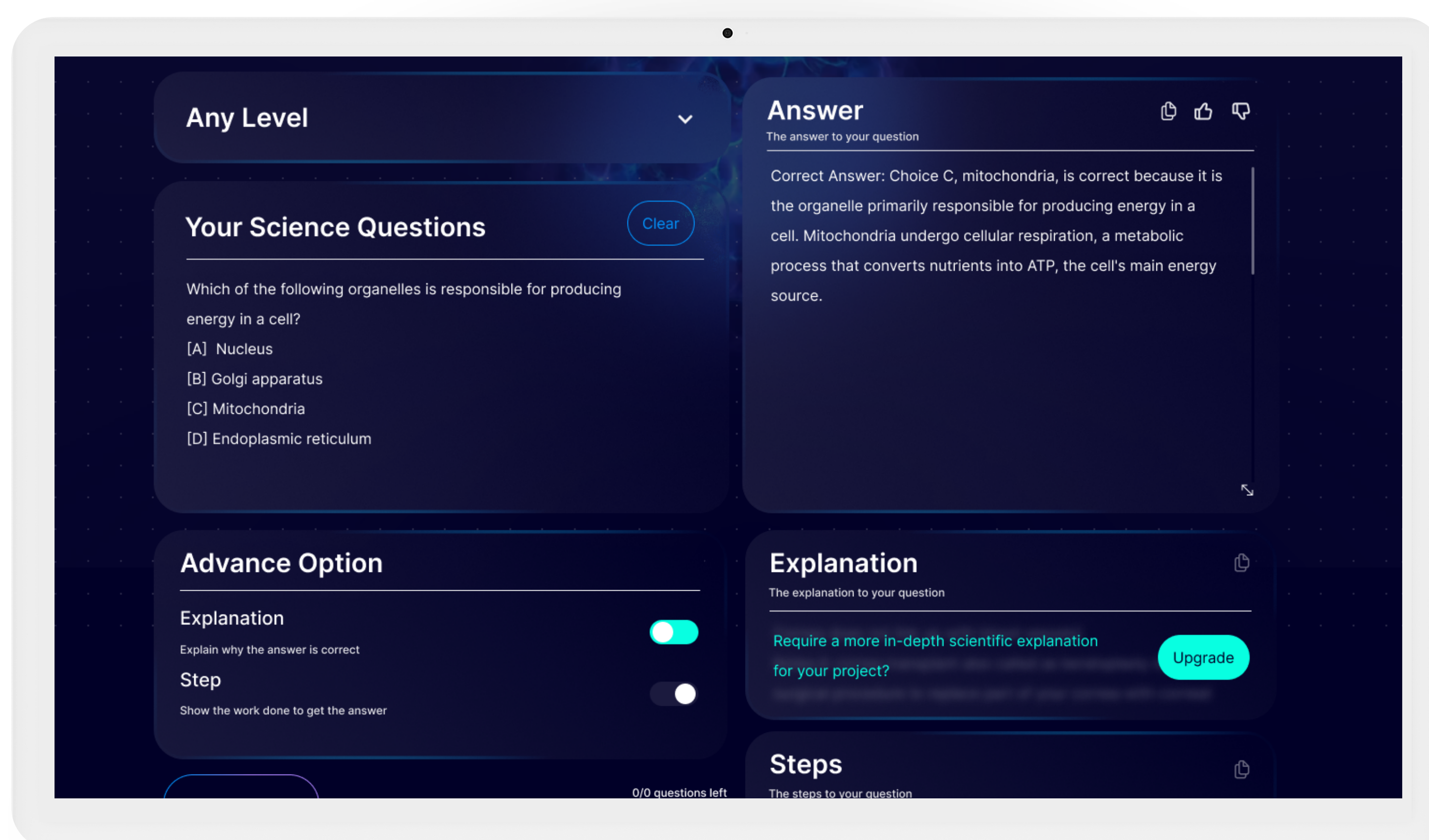
Additionally, the tutor integrates with learning management systems, enabling educators to monitor student progress and provide targeted assistance. ScienceAide empowers students to excel in their scientific studies, providing them with the tools and support they need to succeed in their academic journey.

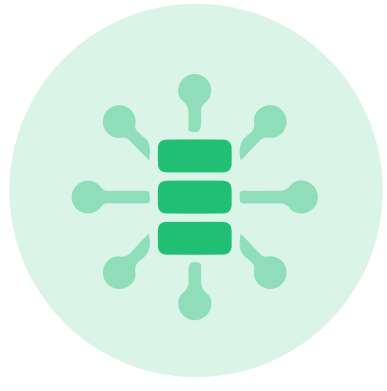
## Key Features



### Question and answer support

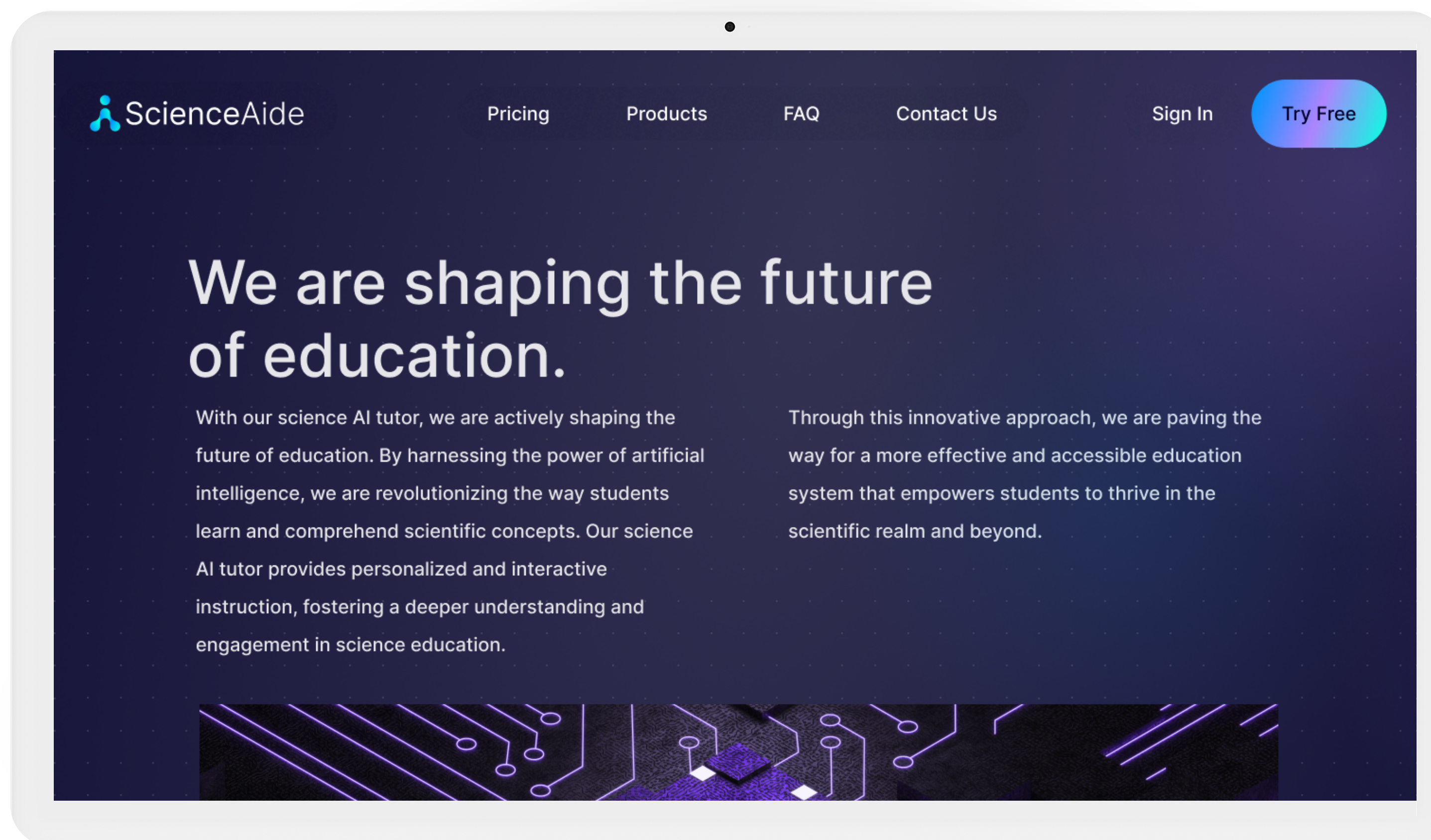
ScienceAide is equipped to handle user queries, providing accurate and timely responses to questions related to scientific concepts and problem-solving.





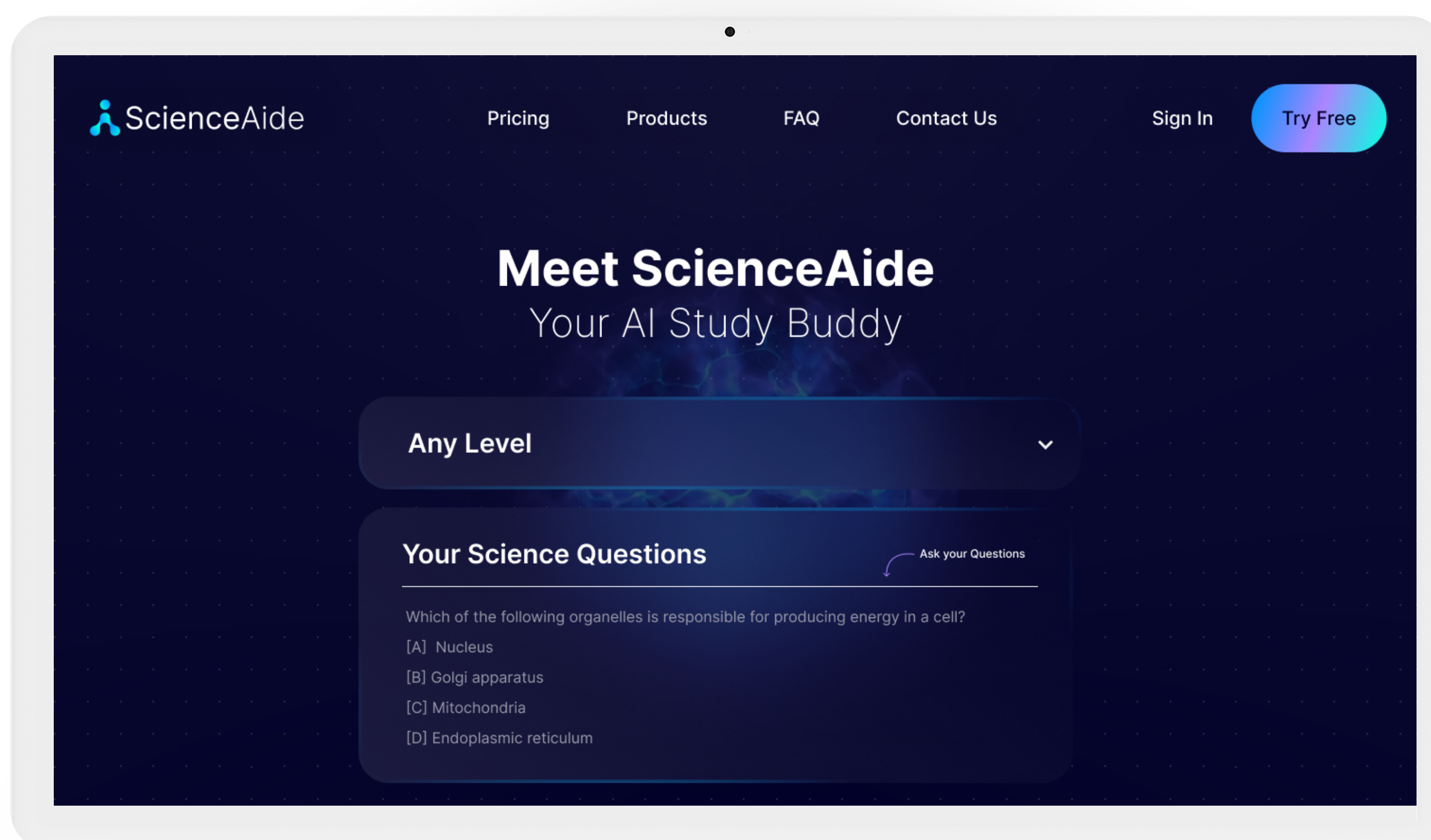
## Content delivery

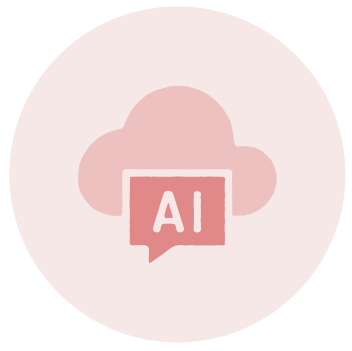
ScienceAide offers comprehensive and well-structured content covering various scientific subjects, ensuring that students can access relevant information and resources.



## User-friendly interface

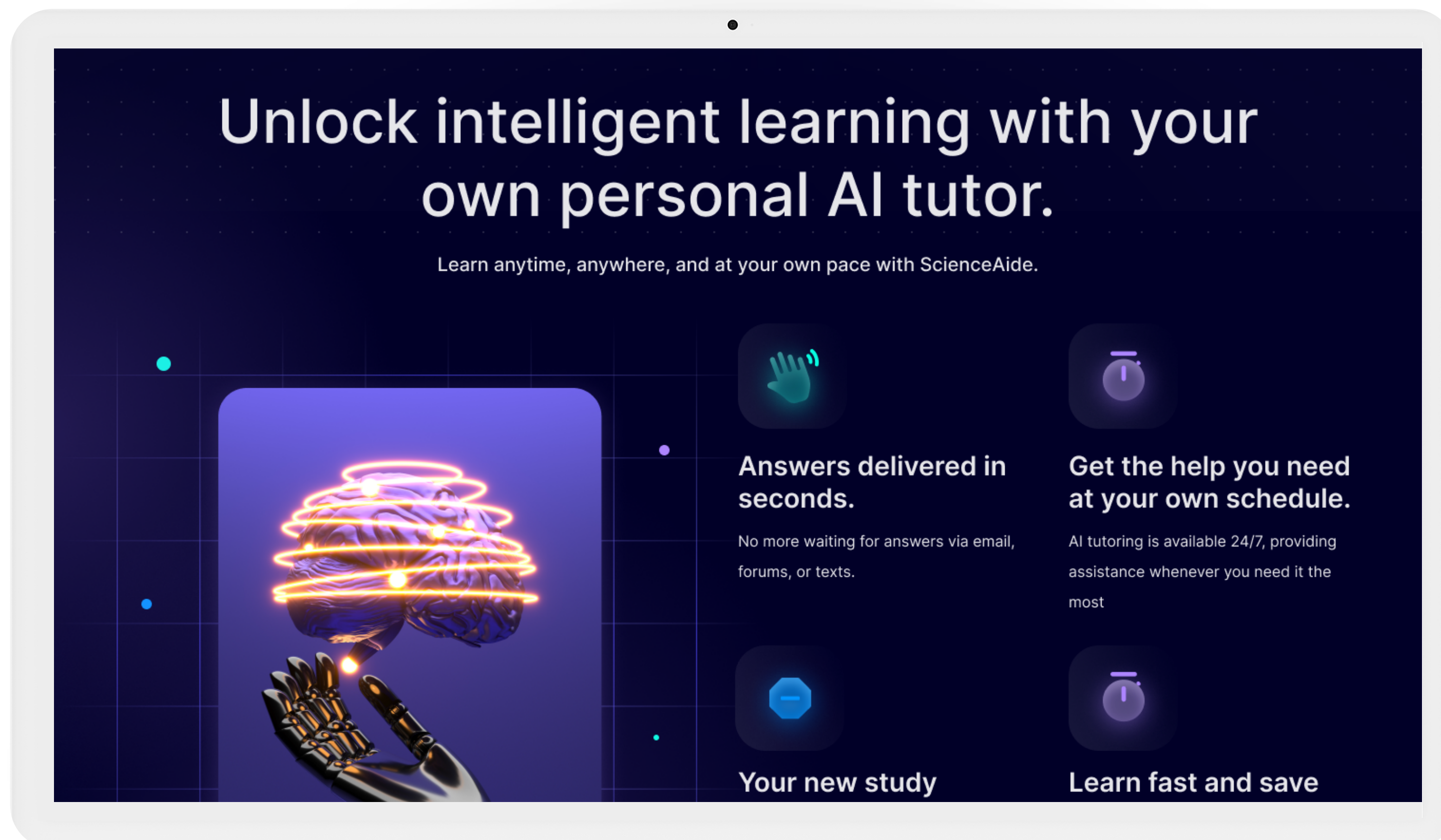
The website has a clean and intuitive interface that is easy to navigate, allowing users to access the AI tutor and its features effortlessly.





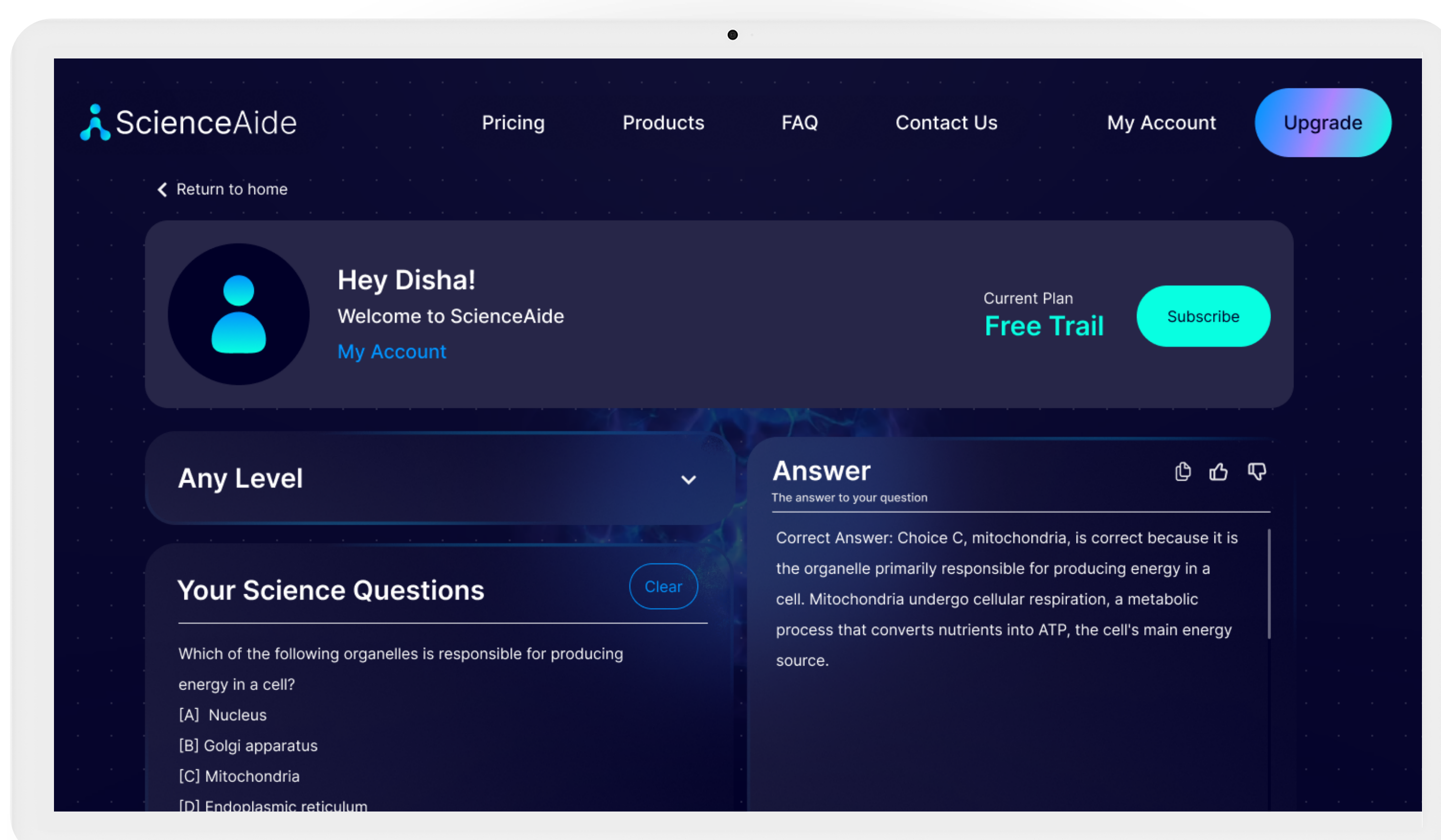
## AI-powered tutoring

The core feature of the website is the AI tutor itself, which provides personalized learning support, explanations, and interactive learning materials.



## Instant feedback:

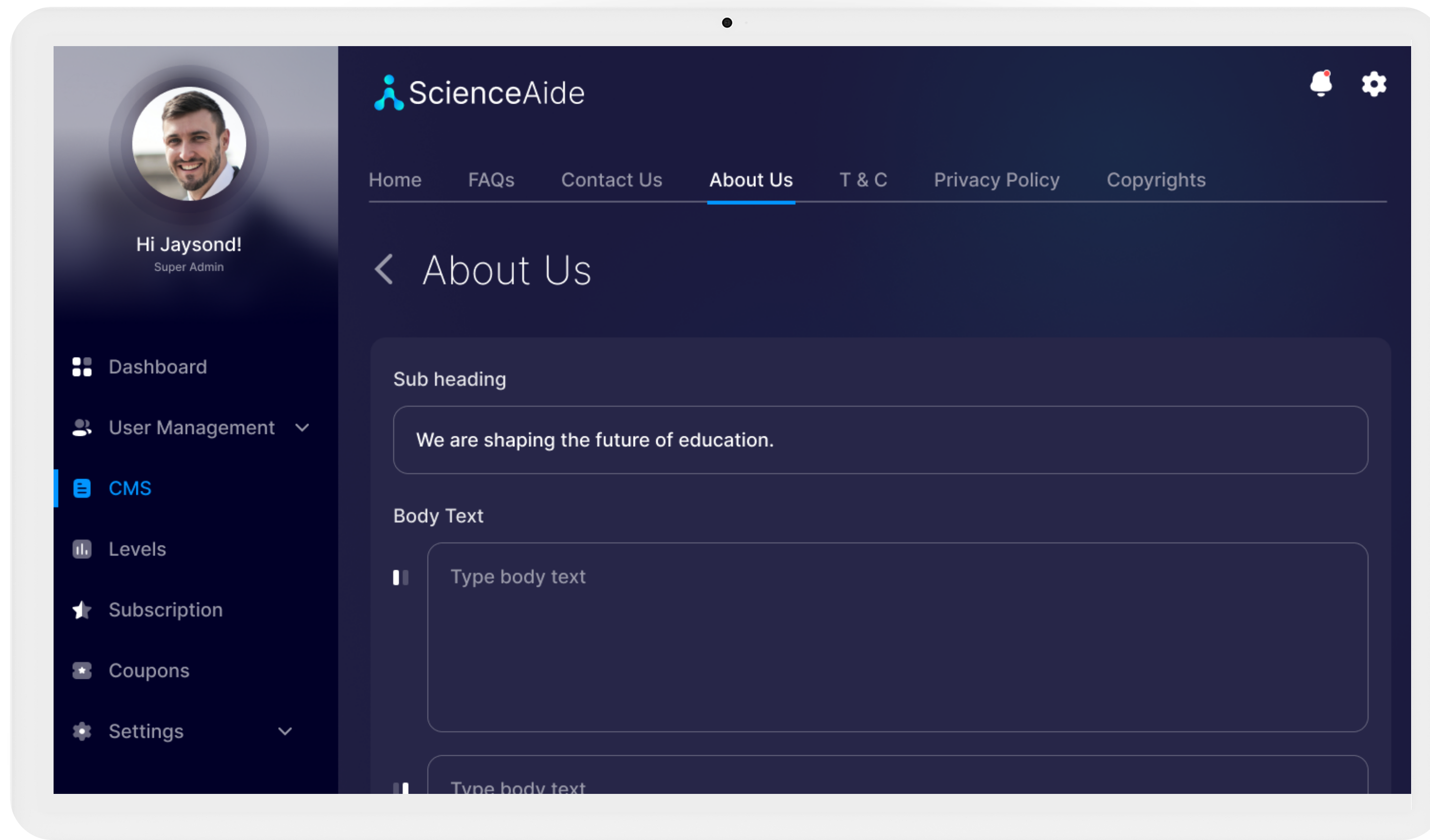
ScienceAide provides immediate feedback to students, which helps them to correct their mistakes and learn from them quickly.





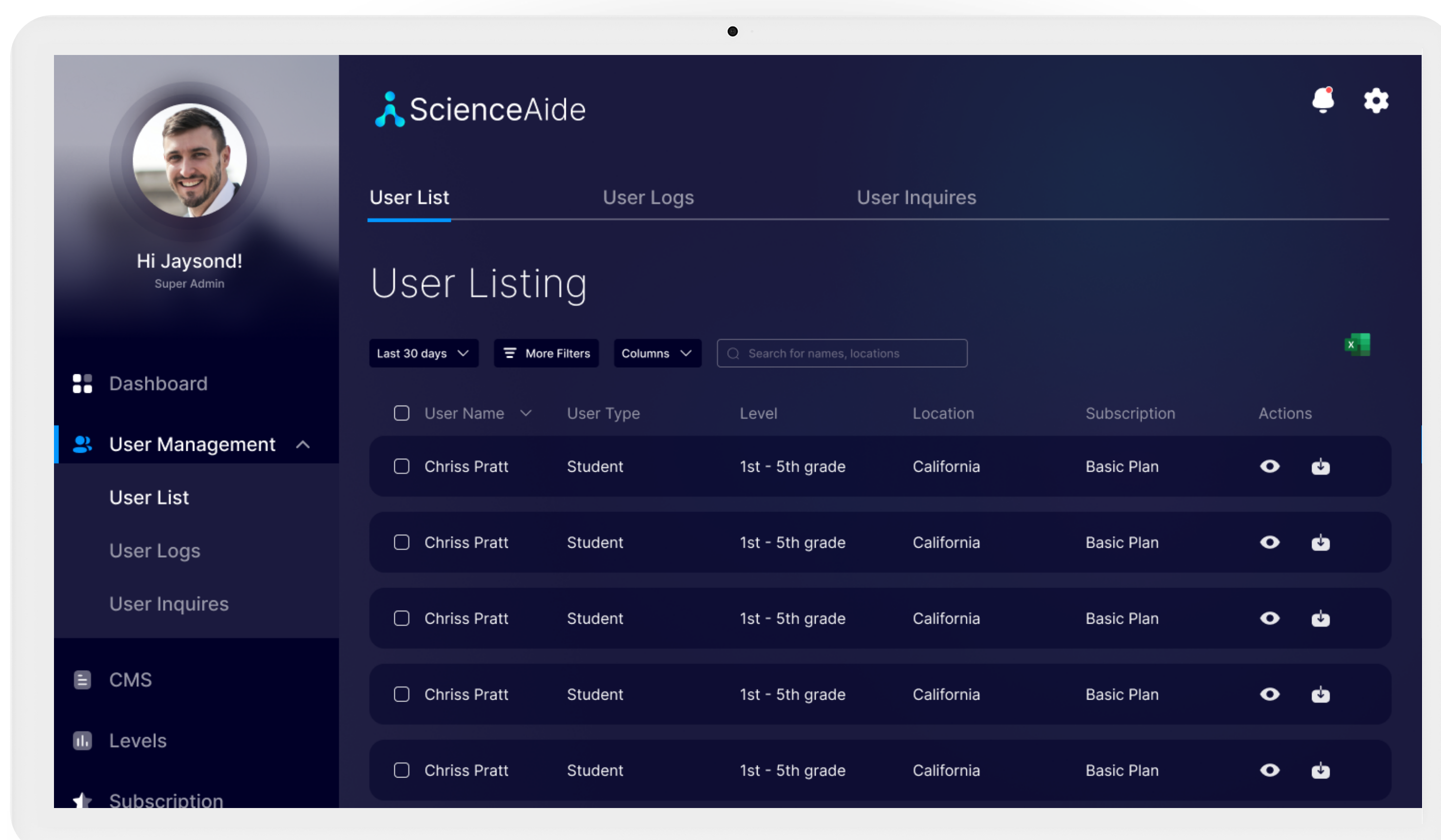
## Content Management System

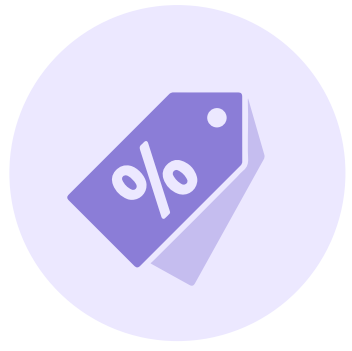
Content Management System (CMS) enables user to create, manage, and publish digital content, to whom the super admin gives the access to.



## User Management:

User Management lets the super admin manage the website in terms of controlling and managing user accounts & their access to various features and resources on the site.





## Coupons

The coupons feature on the website allows the super admin to offer discounts, promotions, or special deals to their customers. It provides a mechanism for customers to apply unique coupon codes during the checkout process to avail of the specified benefits.

The screenshot displays the 'Add Coupon' interface in the ScienceAide admin dashboard. The user is identified as 'Hi Jaysond! Super Admin'. The dashboard includes a sidebar with navigation options: Dashboard, User Management, CMS, Levels, Subscription, Coupons, and Settings. The main content area is titled 'Add Coupon' and features an 'Active' toggle switch. The form includes the following fields and options:

- Coupon name:** A text input field with the placeholder 'Your coupon name'.
- Coupon Code:** A text input field with the placeholder 'Eg: SCI200' and a 'Generate code' link.
- Discount Type:** Radio buttons for 'Amount' (selected) and 'Percentage'. The 'Amount' type has a '\$' symbol, and the 'Percentage' type has a '%' symbol.
- Validity:** Two date-time pickers for start and end dates, both set to '09-01-2023, 09:30 AM'. A checkbox for 'Do not set end date' is present.
- Limit:** Radio buttons for 'Single use' (selected), 'First time users', and 'No. of users'.



## Results

With ScienceAide one can analyze student data to create a customized learning path for each student. This helped students to learn more effectively and efficiently. ScienceAide helped students to stay motivated and engaged in their studies.

By being available 24/7 students can get helped whenever they need it. This is especially helpful for students who are working on their own or who need help outside of normal school hours.

Overall, the use of ScienceAide-AI tutor has the potential to be a valuable tool for students, teachers, parents and schools.

## What The Client Says About Us



"Fortunesoft IT Innovations has been an outstanding business partner for our company. After a terrible experience using offshore developers, we took a chance on Fortunesoft IT Innovations and they have been excellent to work with. The team is relentless in following agile development processes. They took the time to learn our business and it shows in the quality of the work they do. Their team has a broad range of skillsets and were able to help us with every

**Conner Humphrey**

Co-Founder SalesC2, Texas US

**Nashville, US**

Fortunesoft IT Innovations, Inc.,  
180 N Belvedere Dr, Suite 7C, Gallatin,  
Nashville, TN 37066, US  
+1-615-298-7395

**Bangalore, India**

Fortunesoft IT Innovations Pvt. Ltd.,  
#19, KMJ Ascend, 17th C Main 1st Cross,  
5th Block, Koramangala Bangalore  
560095  
+91-9900002145

**Singapore**

Fortunesoft IT Innovations Pte. Ltd.,  
30 Cecil Street, # 19-06, Prudential  
Tower Singapore 049712  
+65-3158-1762

**14+**

Years of Service

**150+**

Happy Clients

**510+**

Successful Projects

**2400+**

Successful Sprints

**Fortunesoft™**  
I T I n n o v a t i o n s

<https://www.fortunesoftit.com/contact-us/>