

Artificial Intelligence

Harnessing the Power of AI to Increase Efficiency

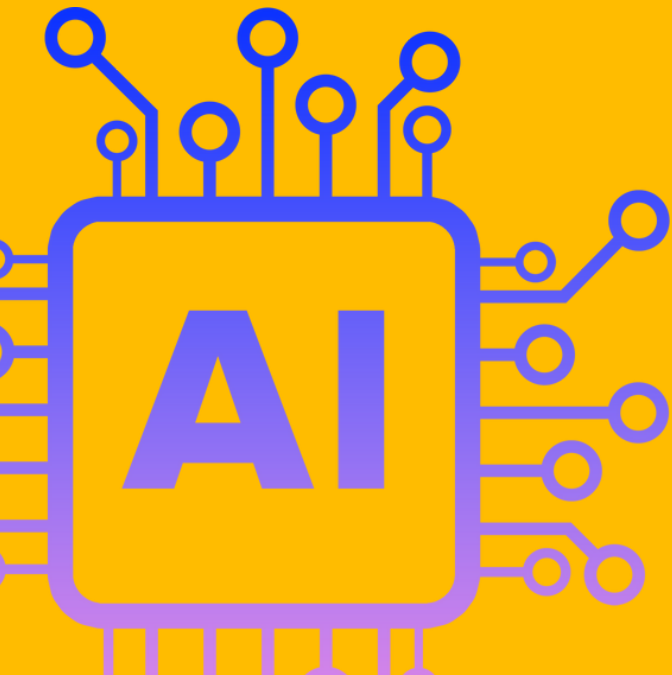


Jeff McCoy

Associate Superintendent
Greenville County Schools
Greenville, South Carolina

FOLLOW

@jmccoygc
s



INNOVATION

“ —
Innovation is the unrelenting
drive to break the Status Quo
and develop anew where
few have dared to go.
— ”



Steve Jeffes

TABLE DISCUSSION



GUARDIAN

Cautious to implement any technology without thorough research. Prioritizes the emotional and social safety of students and educators, and aims to preserve authenticity when implementing technology.

Concerned about academic integrity, bias, and data security when thinking about AIxEDU



Innovator

Willing to take risks, knowing failure is imminent. They are the guinea pigs.

Enthusiastic about implementing any new technology or approach—our beta testers, likely using AI daily (either personally or in their workflows)



Analyst

They research, ask questions, and do the work to provide answers and guidance to our guardians, innovators, and passengers. They are staying informed, digging into literature, and eager to learn. They collect all of the facts before they problem solve.



Passenger

Focused on doing what they know best with the resources at their disposal. They're waiting for the innovators, guardians, and analysts to reach a consensus on how to move forward. Passengers are ready to act once given a ship to board.

Call to Action

“

Artificial Intelligence won't
replace humans, but humans
with artificial intelligence will
replace replace humans
without artificial intelligence

”

Dr. Harim Lakhani



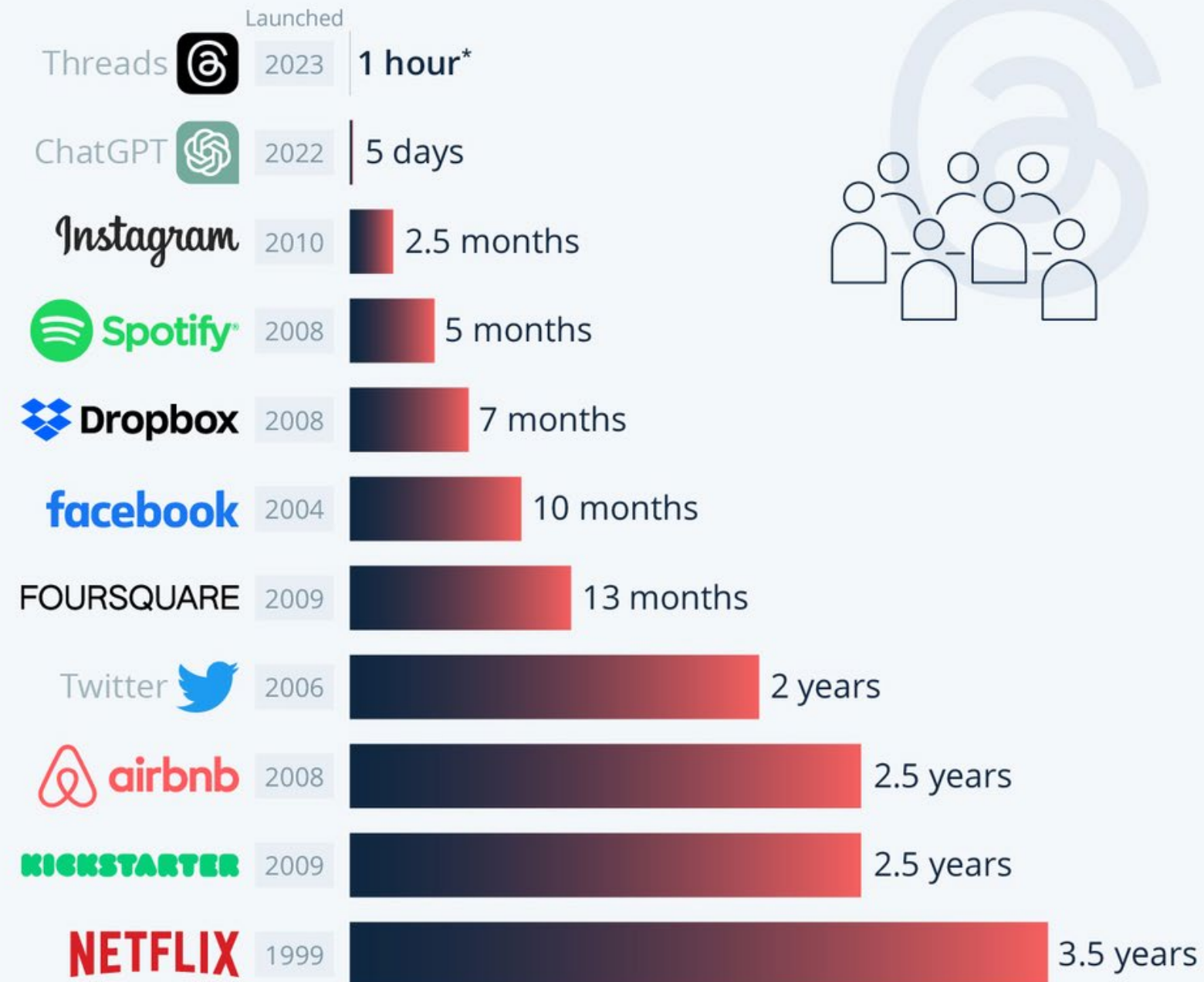
WORK SMARTER

AI Is like an electric bike. It uses enhances human power to help get you over the more difficult areas of the terrain or simply make your experience easier. AI helps with those difficult tasks that so often burden administrators and teachers, but are still necessary to perform.



Threads Shoots Past One Million User Mark at Lightning Speed

Time it took for selected online services to reach one million users



IS AI USHERING IN
THE 4TH
INDUSTRIAL
REVOLUTION?



KEY TURNING POINTS IN DEVELOPMENT AND INNOVATION

Industry 1.0

Water and
Steam Power
for
Mechanization



Industry 2.0

Introduction of
Electricity
yielding to
mass
production



Industry 3.0

IT and the
internet
digitizes
production,
distribution
and services



Industry 4.0

Application of
AI, ubiquitous
Digital
Networks &
Cyber Physical
Systems



AI EXPLOSION

Are we Preparing our Students
for Industry 4.0 workforce?



The AI market is projected to
reach 407 Billion by 2027



75% of consumers are concerned
about misinformation from AI



400 million workers could be
displaced by AI



97% of business owners believe
ChatGPT will help their business



AI EXPLOSION

Are we Preparing our Students
for Industry 4.0 workforce?



37% of businesses and
organization employ AI



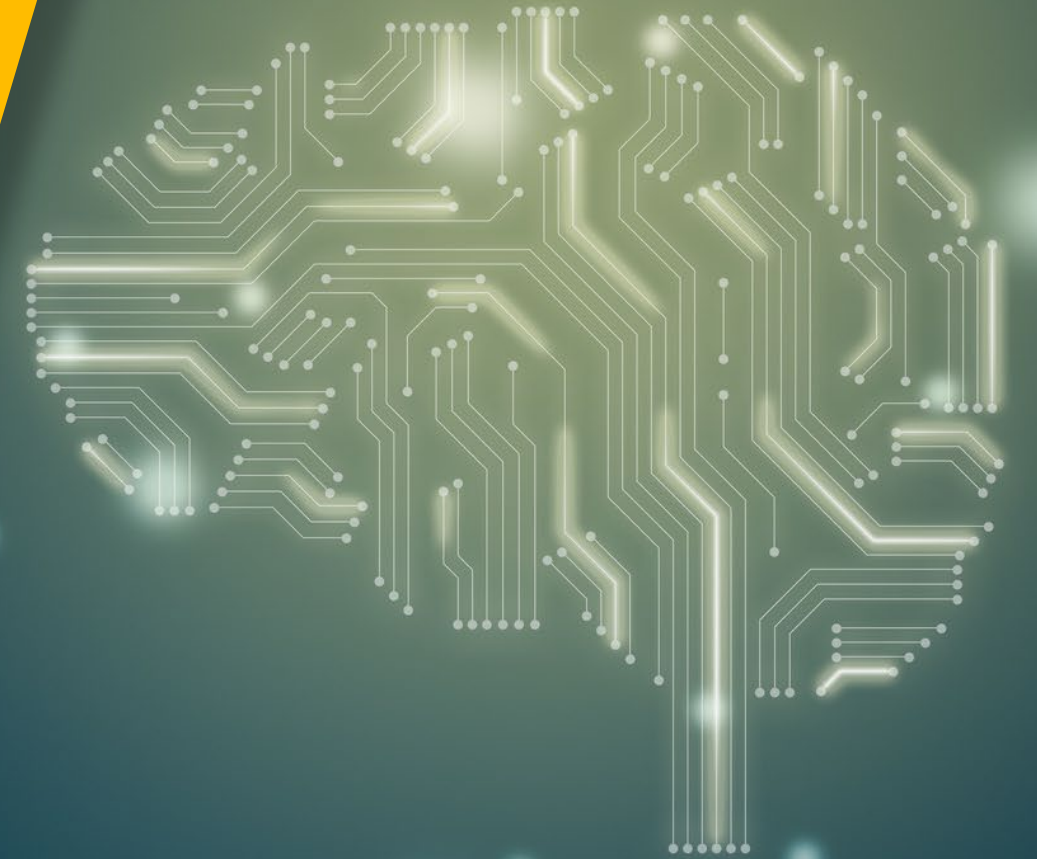
The rise of AI will eliminate 85 million
jobs and create 97 million by 2025



Nine out of ten leading businesses
have investment in AI Technologies



Fewer than 50% of consumers
believe they understand AI

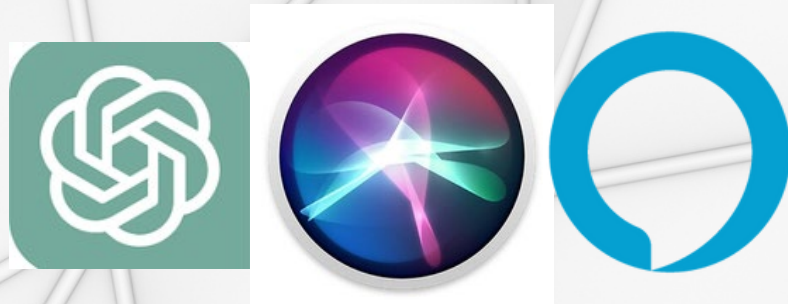


3 KINDS OF AI BASED ON CAPABILITIES



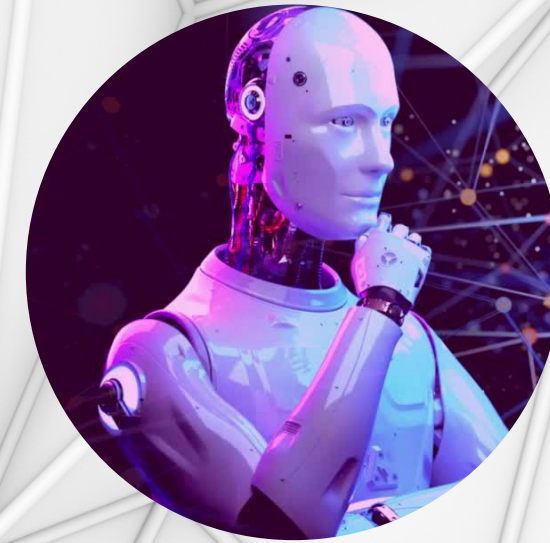
ARTIFICIAL/NARROW AI

- AKA: Weak AI
- The only AI that exists today
- Can be trained to perform a single or narrow task



GENERAL AI

- AKA: Strong AI
- Theoretical Concept Only
- Can use previous learnings and skills to accomplish new tasks in different concepts without the need for humans to train the models.
- Can learn and perform intellectual tasks like humans



SUPER AI

- AKA: Artificial Superintelligence
- Strictly theoretical
- Would think, reason, learn, make judgements and possess cognitive abilities that would surpass those of human beings
- Ability to feel emotions, have needs and possess beliefs and desires

3 LAYERS OF FUNCTIONALITY

Artificial Intelligence

- Applies any technique that enables computers to mimic human intelligence
- Uses logic, if -then rules, decision trees, and machine/deep learning

Machine Learning

- A subset of AI that includes complex statistical techniques that enable machines to improve tasks with experience
- A subset of machine learning that includes deep learning

Deep Learning

- A subset of machine learning that includes algorithms and direct software to train itself to perform tasks, like speech and image recognition, using multi-layered networks and massive amounts of data

AI is Already Helping us Live Better



Apple
Watch

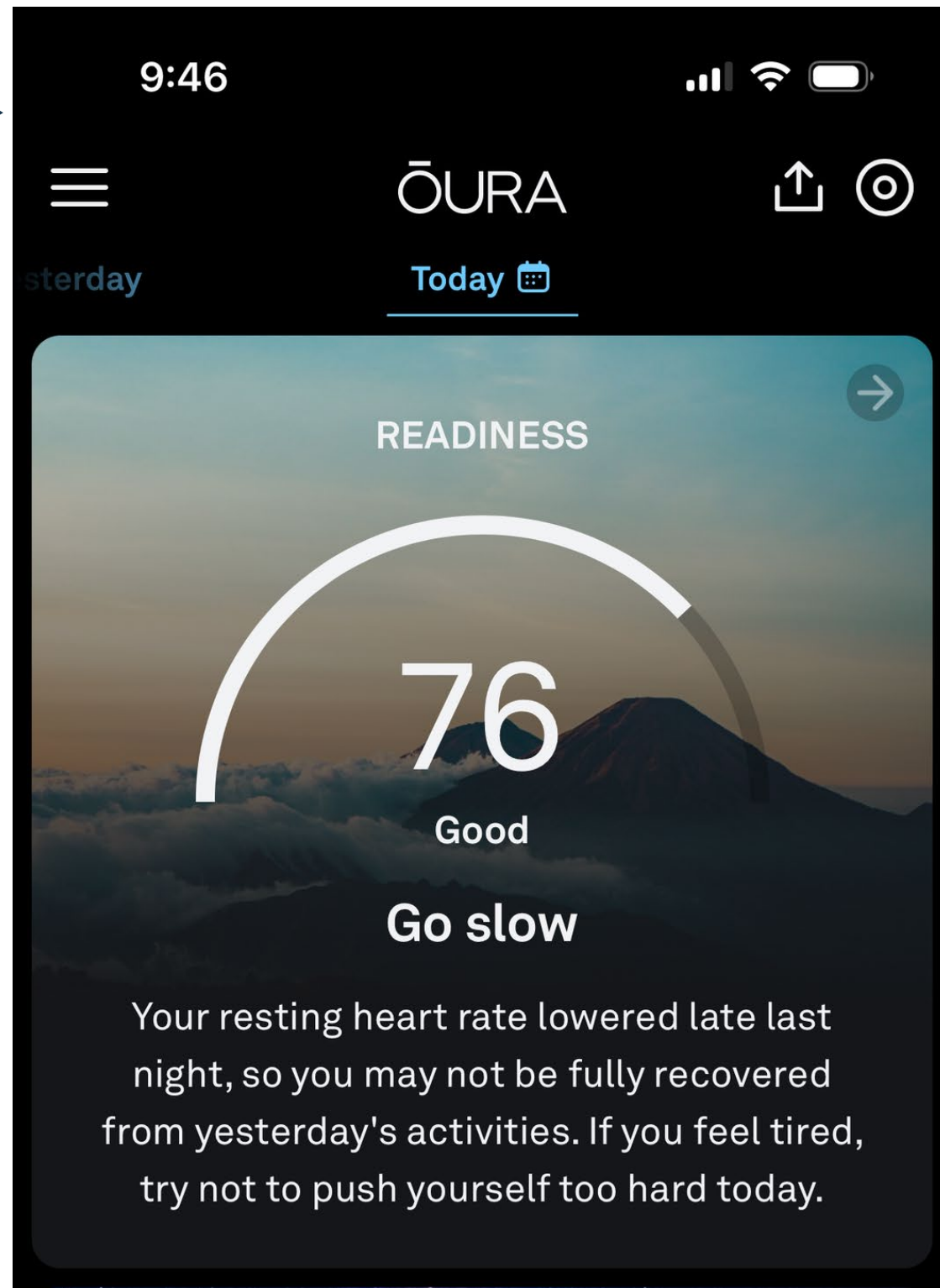


Oura Ring



Whoop

AI is Already Helping us Live Better



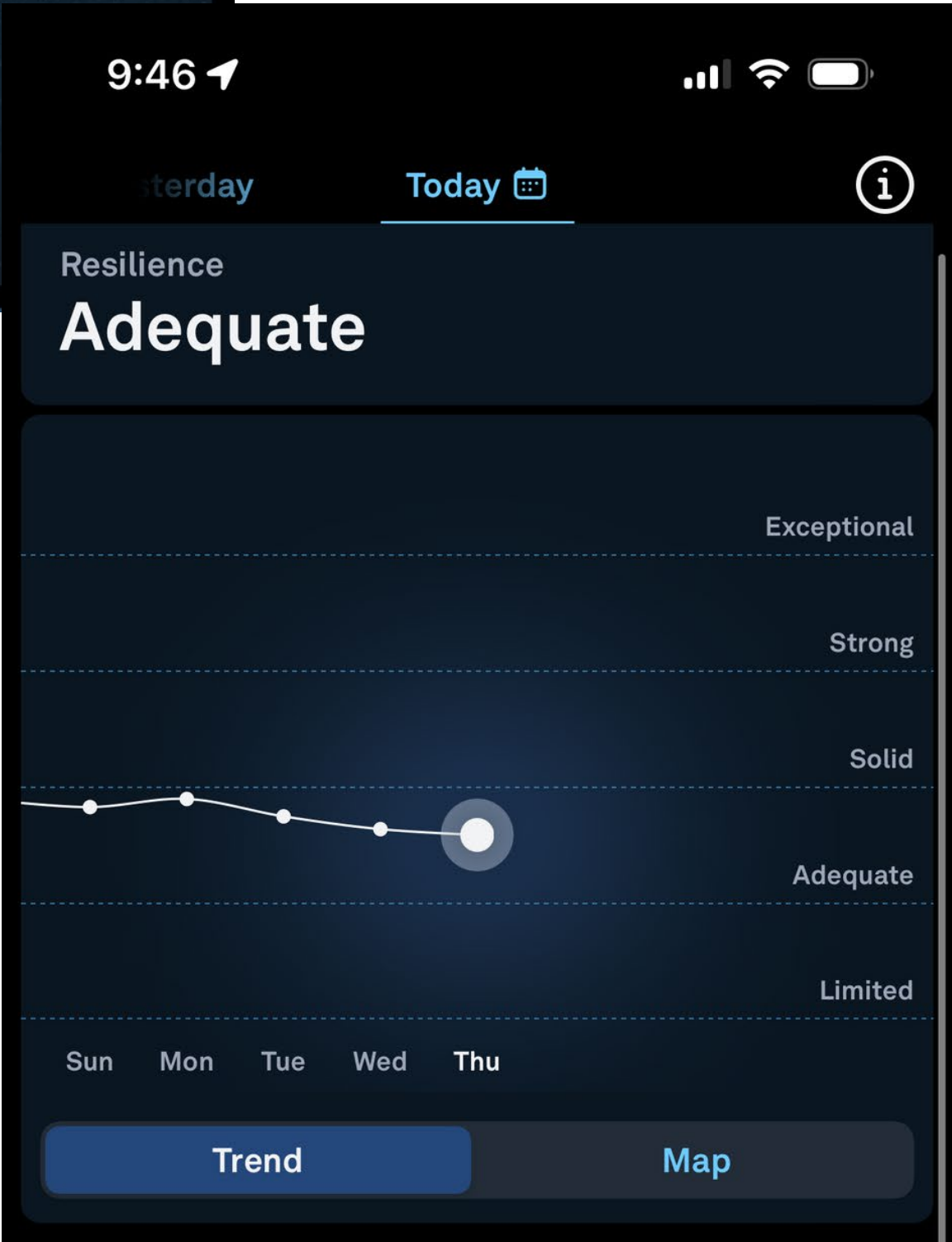
AI is Already Helping us Live Better



RESILIENCE

Adequate

With no major changes.



Resilience contributors

Measured over the past 14 days

Nighttime recovery

Daytime recovery

Daytime stress load

Moderate

Home

Readiness

Sleep

Activity

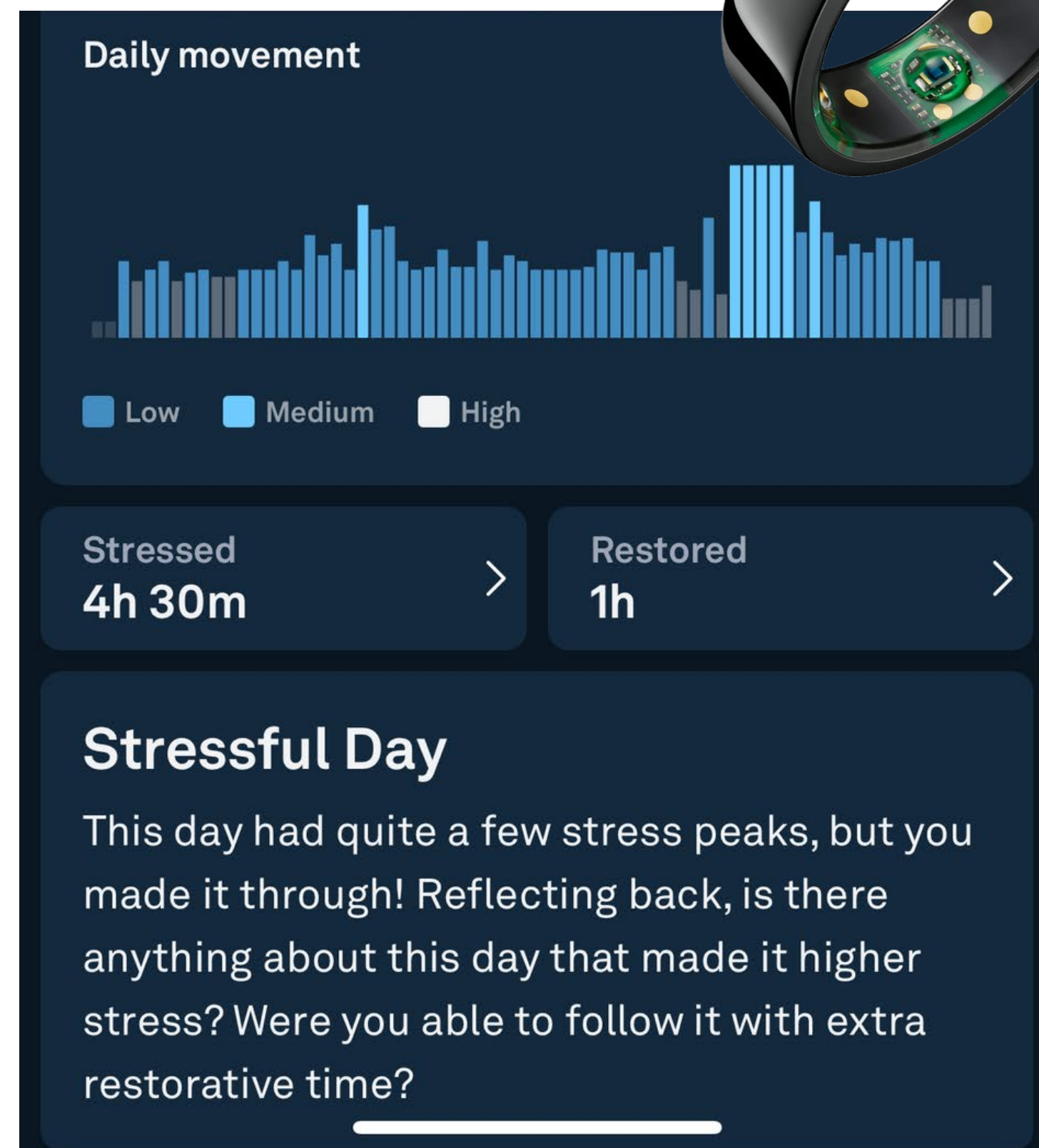
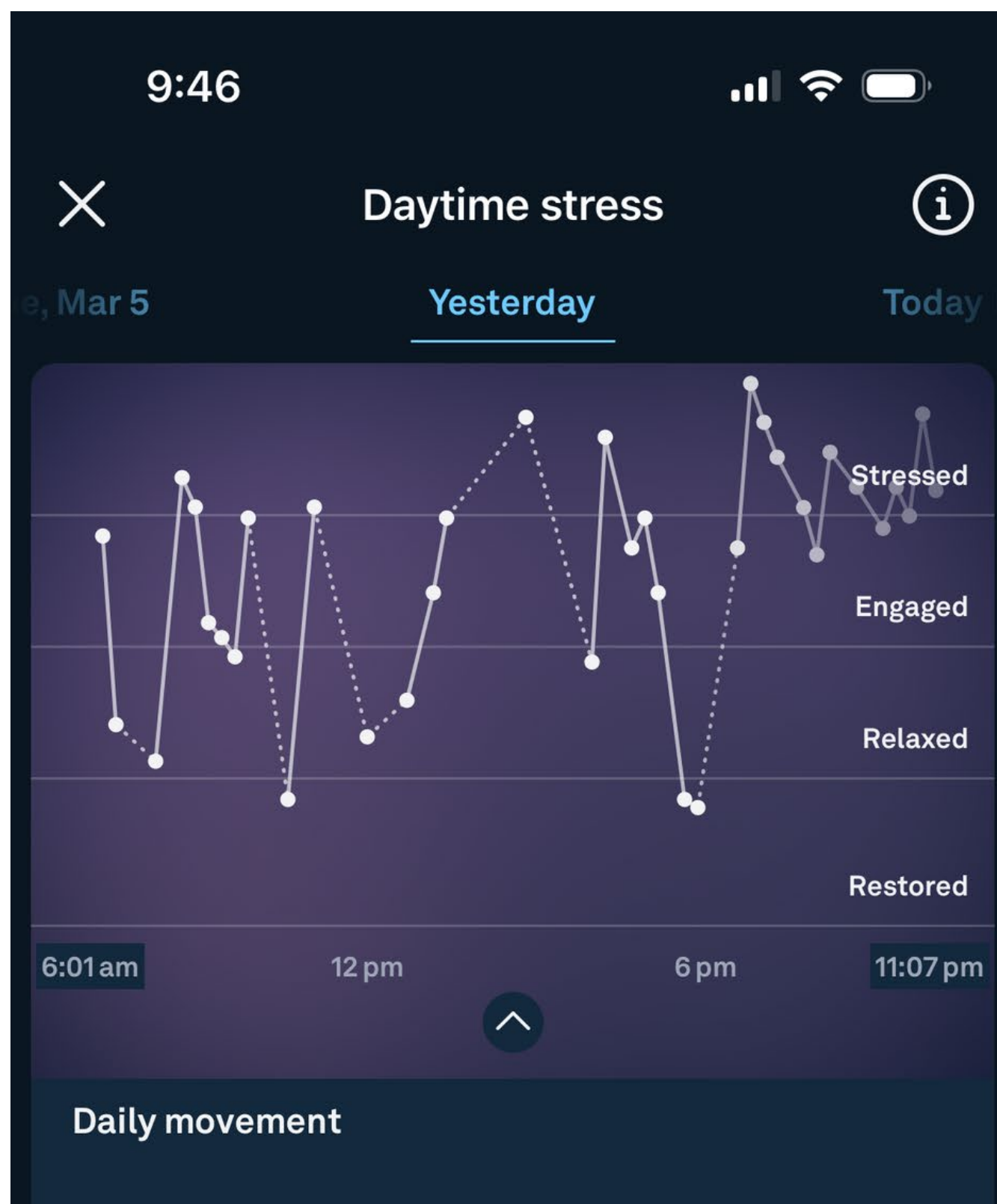
Resilience

Resilience

AI is Already Helping us Live Better



Stress Monitoring



AI is Already Helping us Live Better



Readiness

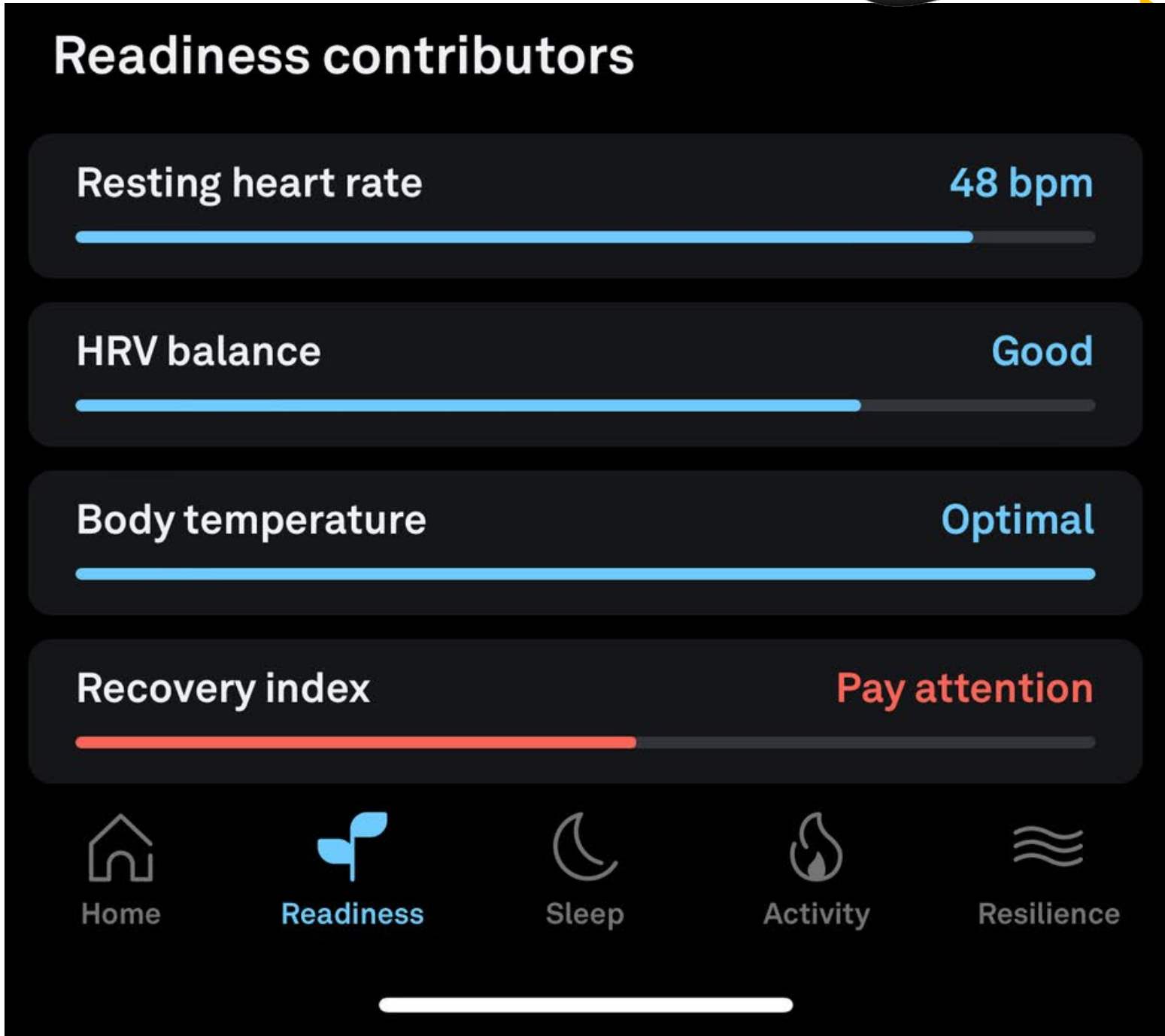
AI is Already Helping us Live Better



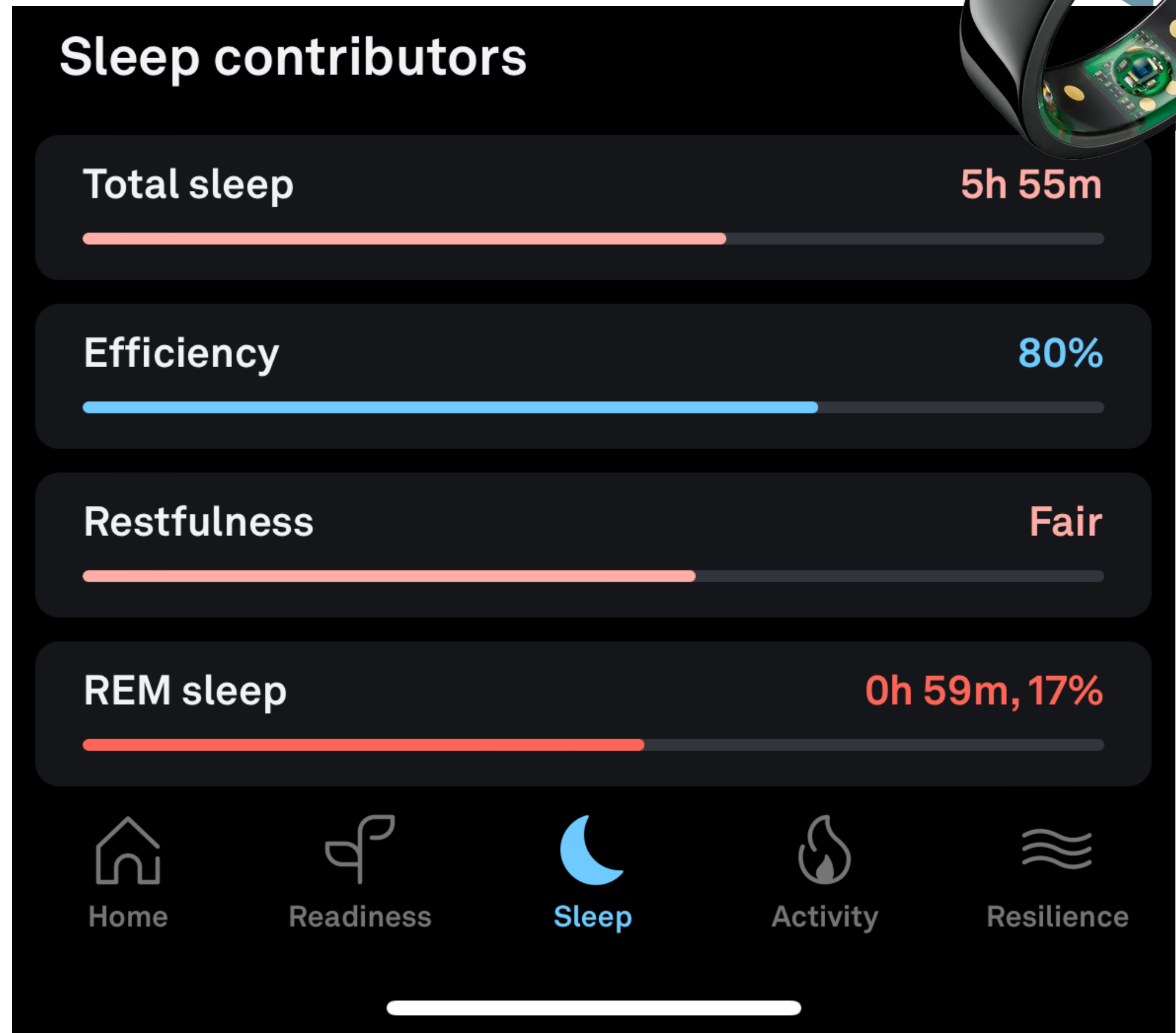
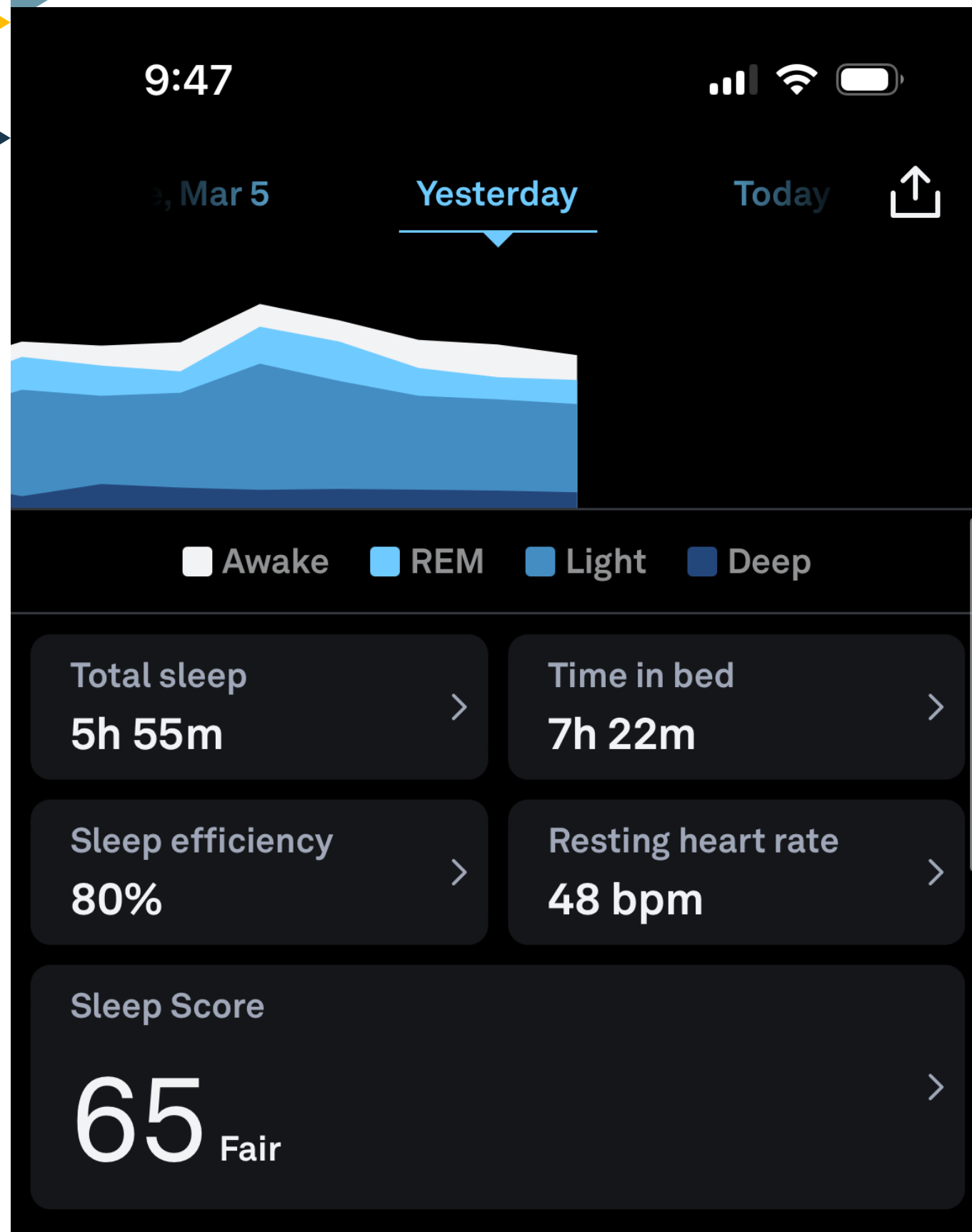
Readiness



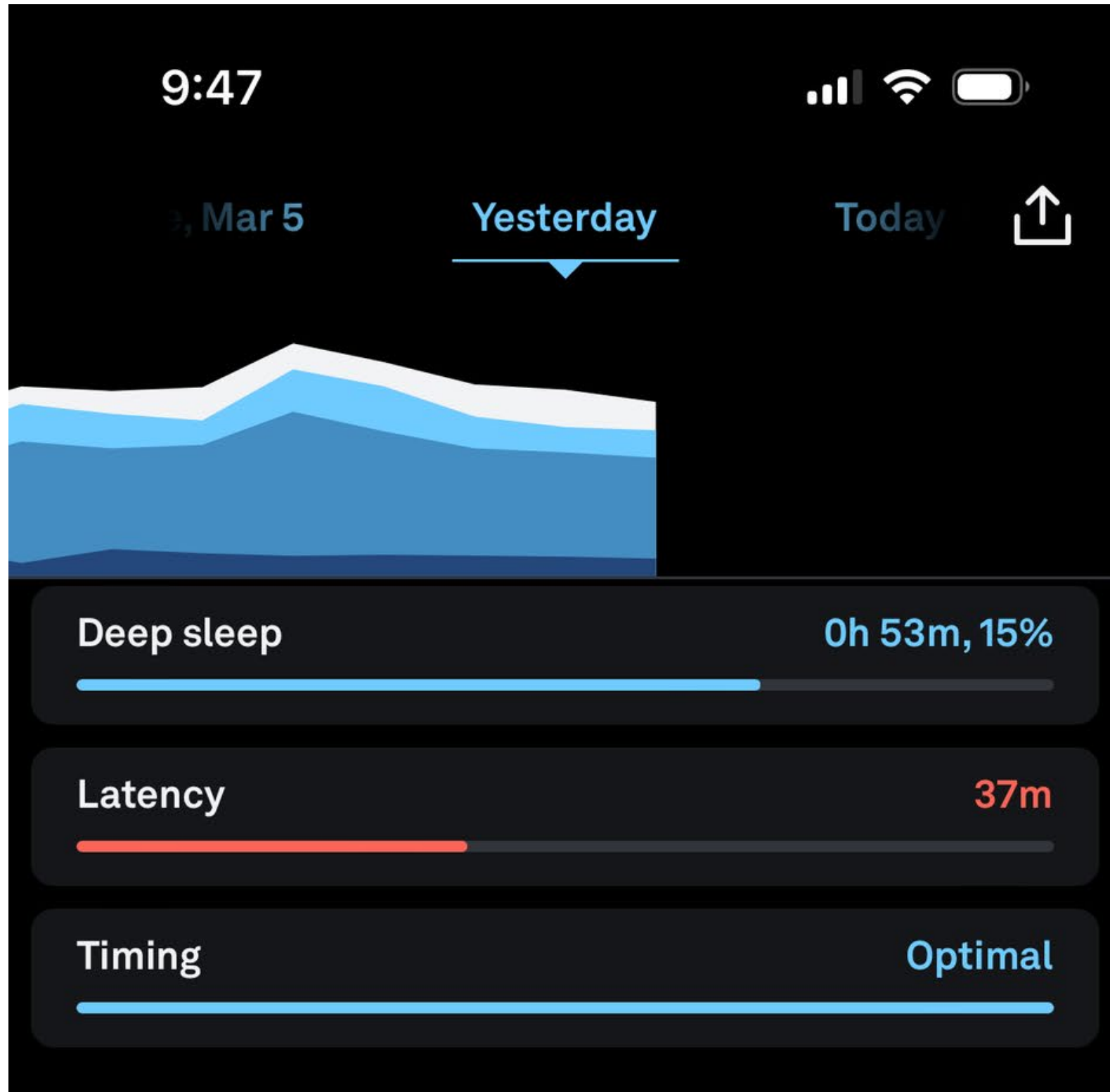
Flu/Sickness
Indicators



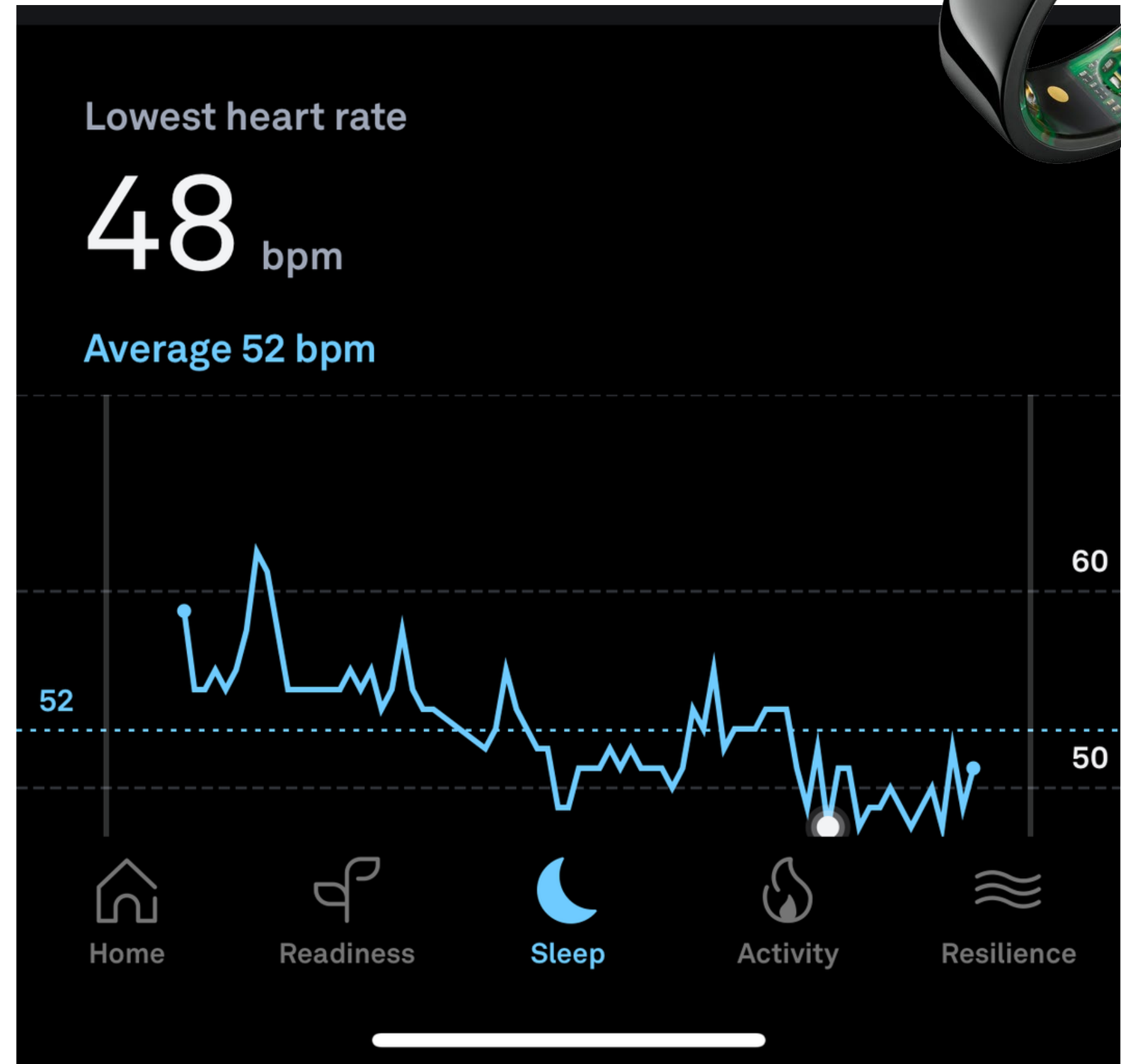
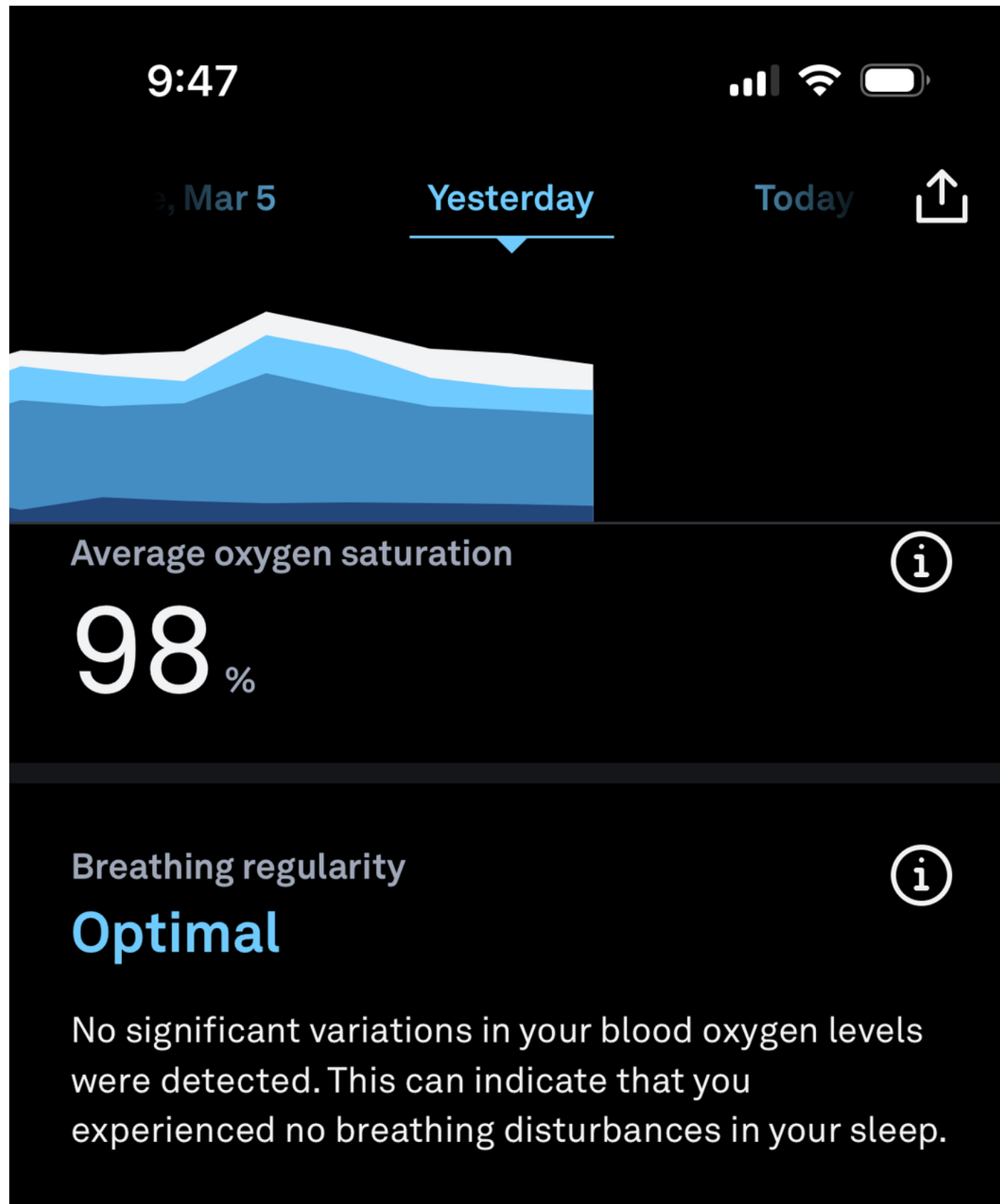
AI is Already Helping us Live Better



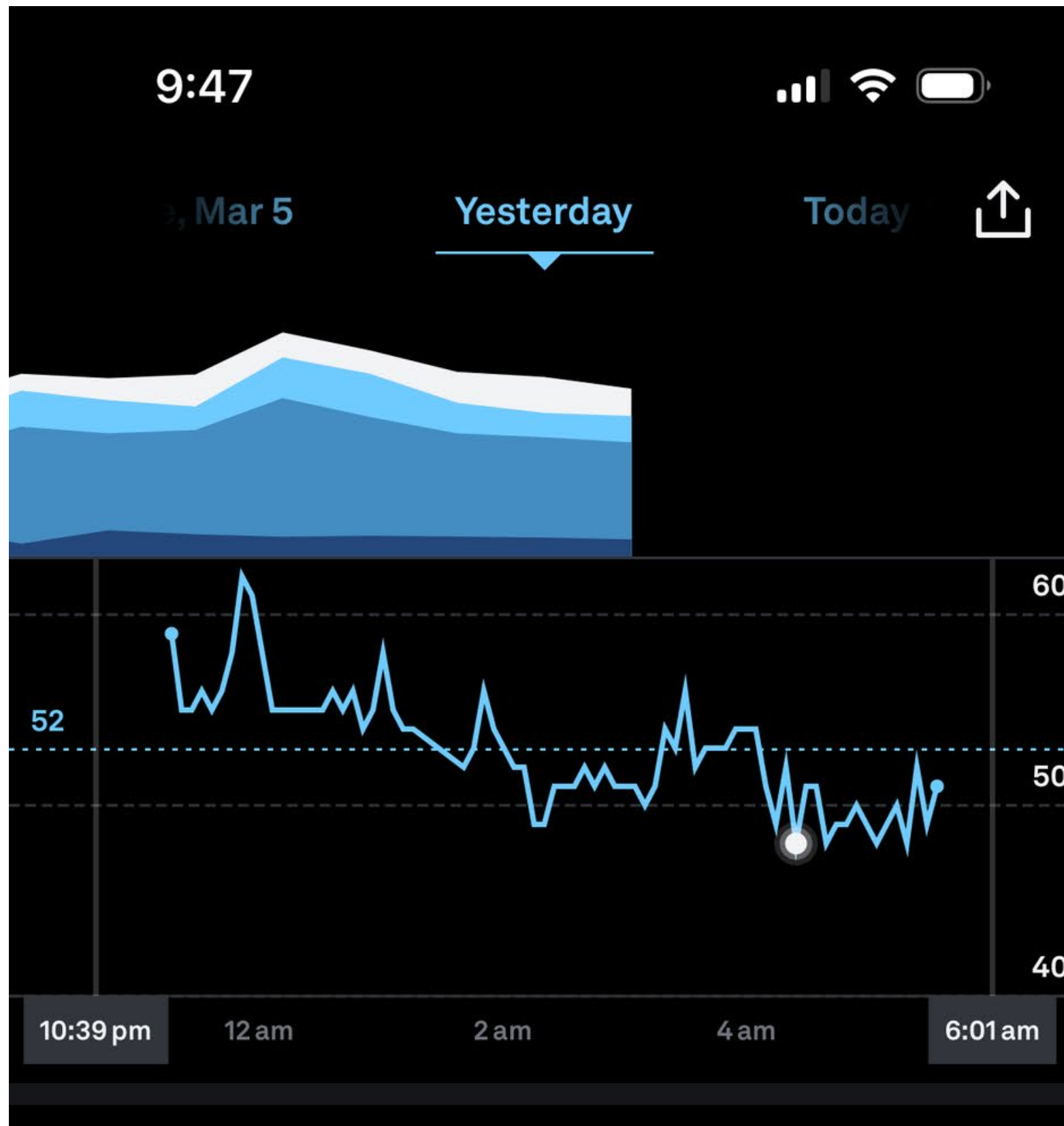
AI is Already Helping us Live Better



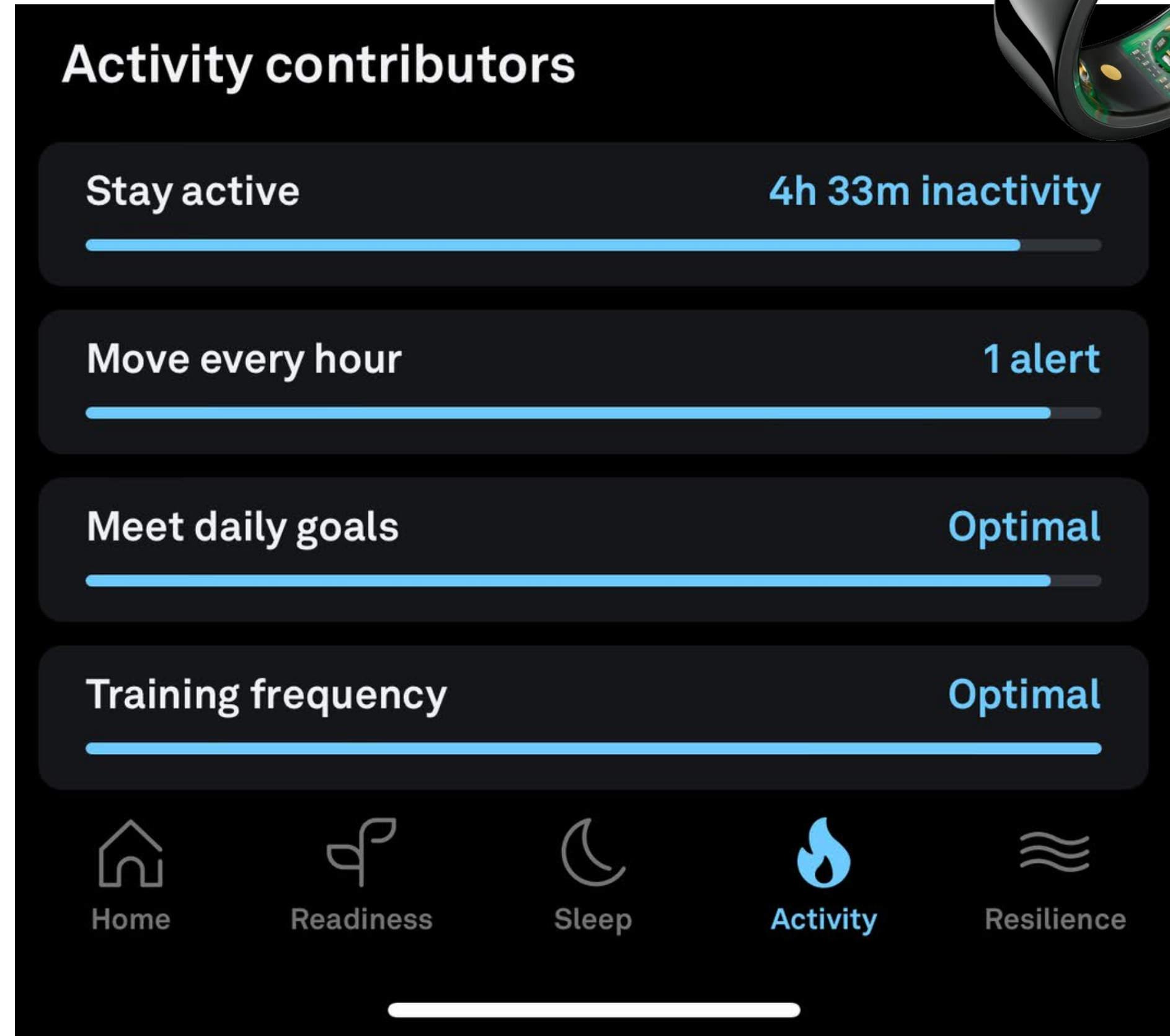
AI is Already Helping us Live Better



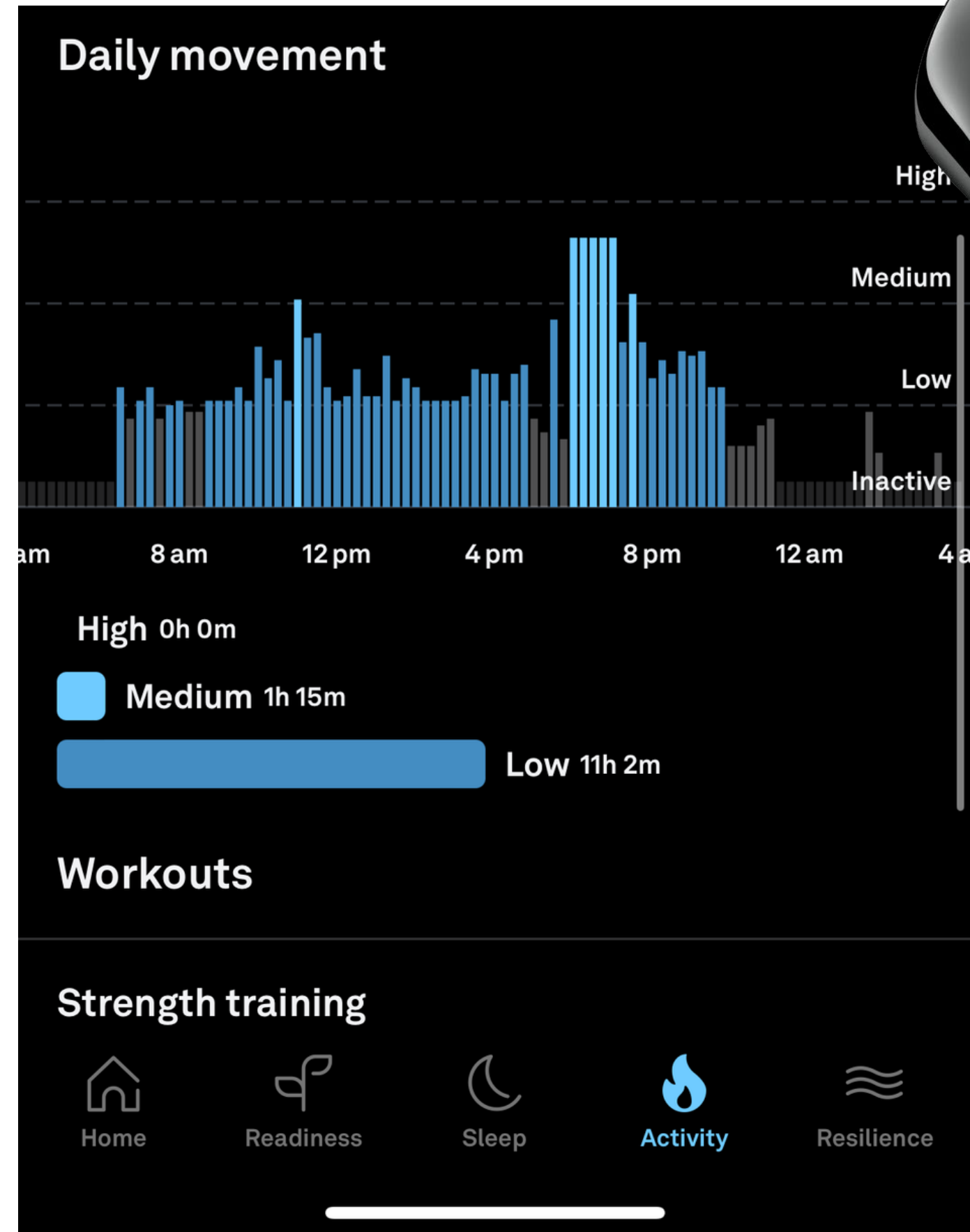
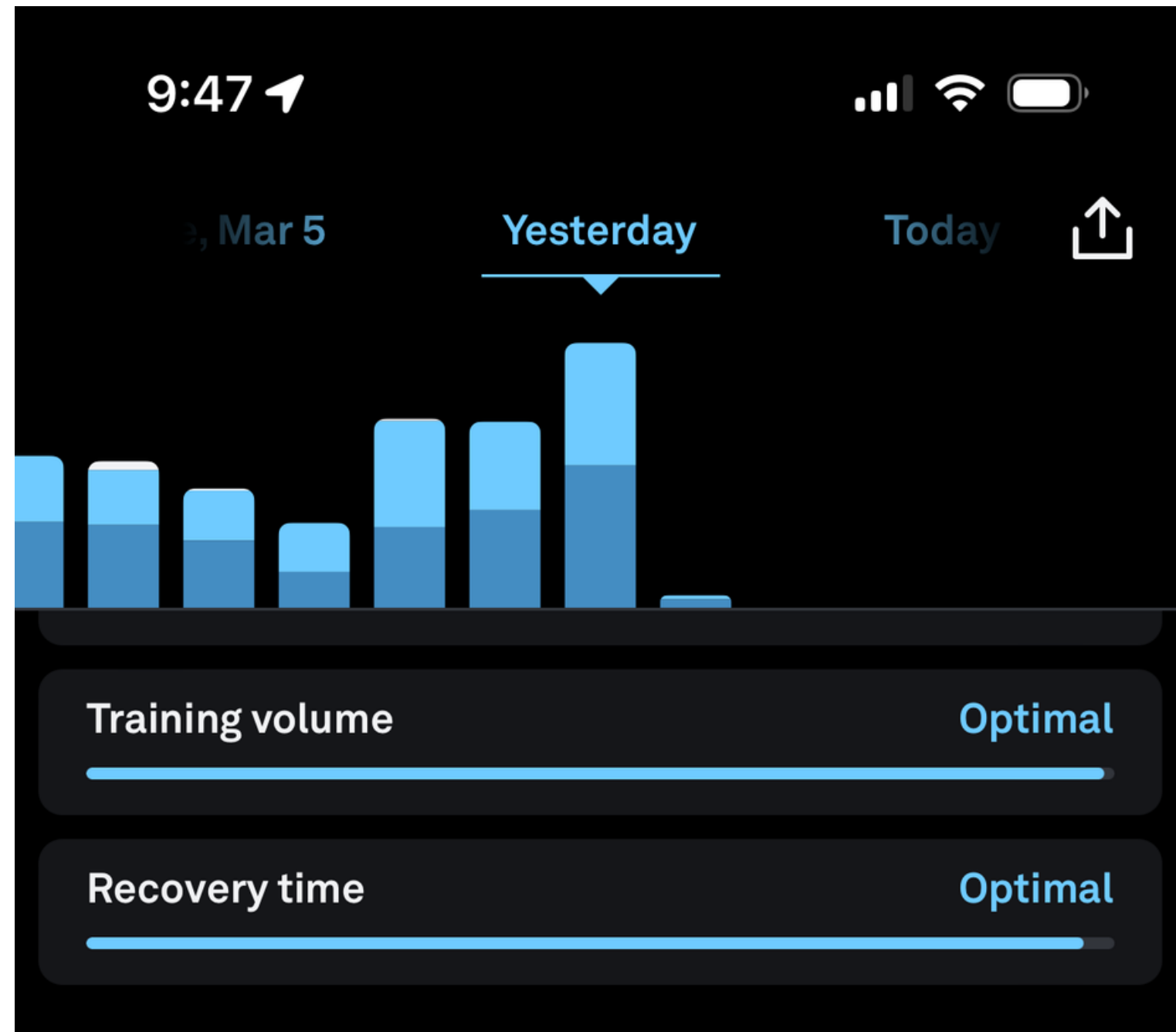
AI is Already Helping us Live Better



AI is Already Helping us Live Better



AI is Already Helping us Live Better



The background of the slide features a photograph of the Oracle headquarters, a modern glass skyscraper with a curved facade, situated next to a body of water. The image is overlaid with large, abstract geometric shapes in yellow and dark blue. On the right side, there is a white area with a subtle geometric pattern of intersecting lines.

CALL TO ACTION:

EMBRACE AI OR GET LEFT
BEHIND. THE SHIP HAS
LEFT THE DOCK AND
MANY LEADERS ARE
ALREADY STRUGGLING TO
KEEP UP

TABLE DISCUSSION

1

What phase are you currently in implementing AI in your district?

Exploring

Implementing with Staff

Implementing with Students

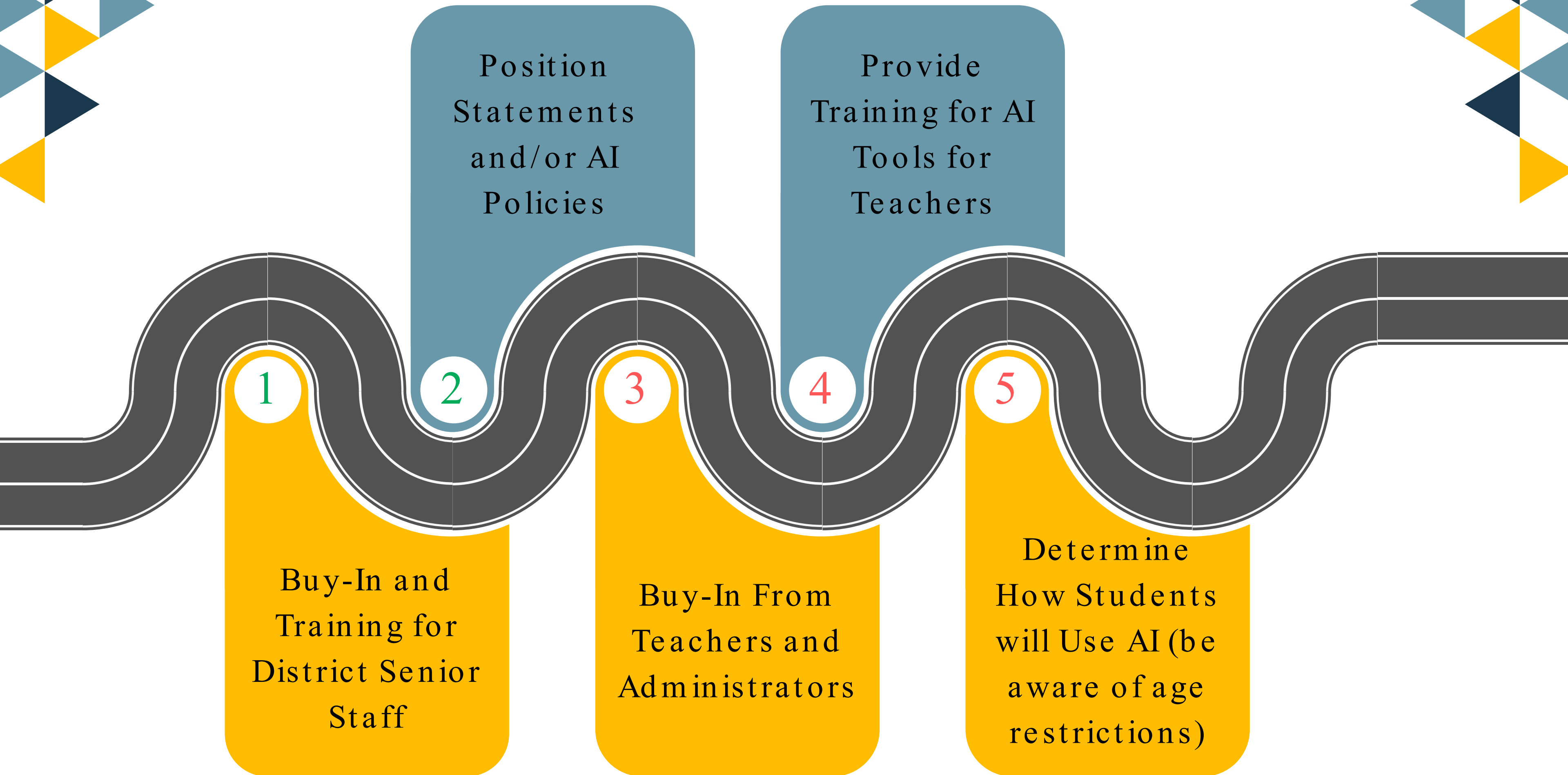
Full Implementation

2

What is your Biggest Concern with Implementing AI



District Implementation Road Map (Example)



HOW DO YOU LEVERAGE
CHATGPT IN YOUR **profession**
AND **personal** LIFE TO BE
MORE EFFECIENT AND SAVE
TIME?



MAXIMIZING CHATGPT TO GET BETTER RESULTS

- Customizing the ChatGPT Set up for you
- Customizing your Personal Preferences




MAKE CHATGPT WORK FOR YOU!

ChatGPT allows you to customize settings so you don't have to constantly repeat certain things.

1

Classroom AI Instruction Video
CFOs Use ChatGPT
Golden Retrievers Playing Beach
K12 CFOs Use ChatGPT
Superintendent Awards Nominatio
Pixar-Style Group Illustration
Evolution Tech Video Made
AI Transforms High School
Pixar-style illustration request.

 Add Team workspace
Collaborate on a Team plan

 Jeff McCoy

Click your Name (Bottom Left)

2

Chicken Marsala Recipe

New chat

Classroom AI Instruction Video

CFOs Use ChatGPT


Golden Retrievers Playing Beach

K12 CFOs Use ChatGPT

Superintendent Awards Nominatio

 My plan

 My GPTs

 Customize ChatGPT

 Settings

 Log out

 Jeff McCoy

Choose Customize
ChatGPT

MAKE CHATGPT WORK FOR YOU!

Add your Bio so Chat GPT knows who you are, where you work, etc. Give context so the responses returned are more specific to you and your role. Feel free to add personal things as well

3

Customize ChatGPT

Custom Instructions ⓘ

How would you like ChatGPT to know about you to provide better responses?

I am an Associate Superintendent for Academics working in Greenville County Schools, the largest school district in South Carolina.

131/1500

How would you like ChatGPT to respond?

Be concise and provide constructive feedback
Inform me of any underlying assumptions you are making
Ask a relevant question at the end of each response
We are partners in accomplishing the identified task
Offer multiple perspectives with associated pros and cons when discussing solutions or opinions

393/1500

Enable for new chats ☒

Cancel Save

Add specific directions in the “how would you like ChatGPT to respond so you get the most out of ChatGPT

HOW WOULD YOU LIKE CHATGPT TO RESPOND?

Customize ChatGPT

Custom Instructions ⓘ

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393/1500

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Cancel Save



- Be concise and provide constructive feedback
- Inform me of any underlying assumptions you are making
- Ask a relevant question at the end of each response
- We are partners in accomplishing an identified task
- Offer multiple perspectives associated with pros and cons when discussing solutions or opinions
- Provide anthologies and further readings when explaining complex ideas, concepts, and topics



How do you create
prompts that return the
best answers?
(Garbage in, Garbage
out)

TIPS FOR CREATING PROMPTS IN CHATGPT



"talk" to ChatGPT as
though you were talking
to a friend or co-worker
(hence the name
"CHAT"GPT)



Provide as much
background and context
as possible



Tell ChatGPT what
profession you want it to
assume.

(IE: You are a personal
trainer, You are a
professional chef, You are
a 3rd grade teacher)



Don't be afraid to
question ChatGPT to
keep it on track.

(IE: Why do you think
that?, What evidence do
you have that supports
that response?)



Place limitations on
ChatGPT as needed to
suit your needs and
situation

(IE: Summarize this in 300
words or less, provide
your response in less
than six sentences, etc.)

Work Smarter, Not Harder



You are a Personal Trainer. Create a 5 Day Work out plan that targets all muscles of the body and focuses on building muscle. Provide descriptions of each exercise and links to videos. I want to work out at home and have dumbbells, barbells, medicine balls, resistance bands and a bench that inclines and declines



I'm allergic to seafood and shellfish and several types of fish. Create a nutritional plan that will accomplish the goals of building muscle if I'm working out 5 days a week. Provide meals for with recipe links for breakfast, lunch and dinner and also snacks in between. Provide recipes for each meal.



Provide a grocery list organized by section of the grocery store for the recipes above.

Training for a Marathon

I'm a beginner runner and have never run before. I want to run a marathon in eight months. Can you provide a training plan for me that will help prepare for the marathon?



ChatGPT Response



Phase 1: Base Building (Weeks 1-8)

- **Frequency:** Start with 3-4 runs per week, with rest days in between.
- **Duration:** Begin with a mix of running and walking, gradually increasing running time.
- **Distance:** Start with shorter runs (1-3 miles) and gradually build up to longer distances (up to 6 miles).
- **Focus:** Establish a consistent running routine and build endurance gradually.
- **Cross-Training:** Incorporate activities like walking, cycling, or swimming to improve overall fitness and reduce the risk of injury.

Phase 2: Increasing Endurance (Weeks 9-20)

- **Frequency:** Aim for 4-5 runs per week, with one long run per week.
- **Duration:** Increase the duration of your long runs gradually, adding 1-2 miles each week.
- **Distance:** Build up to a peak long run of 18-20 miles about 2-3 weeks before the marathon.
- **Speed Work:** Introduce one day of speed work per week, such as intervals or tempo runs, to improve running efficiency and speed.
- **Rest and Recovery:** Incorporate rest days and easy runs into your schedule to allow your body to recover and prevent overtraining.

ChatGPT Response



Phase 3: Tapering and Race Preparation (Weeks 21-32)

- **Frequency:** Reduce the frequency of your runs to 3-4 times per week.
- **Duration:** Gradually decrease the distance of your long runs to allow for tapering, with the final long run about 2-3 weeks before the marathon.
- **Nutrition and Hydration:** Pay attention to your nutrition and hydration habits, fueling your body with the nutrients it needs for training and recovery.
- **Mental Preparation:** Visualize success and practice positive self-talk to build confidence for race day.
- **Race Day Strategy:** Plan your pacing strategy and familiarize yourself with the race course to ensure a successful race day experience.

Pros: This gradual training plan allows beginners to build up their endurance safely and steadily over eight months, reducing the risk of injury and burnout. It incorporates rest days and cross-training to improve overall fitness and recovery.

Cons: Eight months may be a challenging timeline for some beginners, and it's essential to listen to your body and adjust the plan as needed to prevent overtraining or injury.

Question: Have you considered seeking guidance from a running coach or joining a beginner-friendly running group to receive personalized support and advice as you train for your marathon?

Dinner Party for

Eight

I'm a novice cook and I'm planning a dinner party for eight people. Two have seafood allergies and one is gluten free. Create a three course dinner with dessert. Also suggest appropriate wines to pair with the courses. Provide the links to recipes.



ChatGPT Response



Appetizer: Tomato Basil Bruschetta

- A classic Italian appetizer made with diced tomatoes, fresh basil, garlic, and olive oil, served on gluten-free toasted bread.
- **Gluten-Free Option:** Use gluten-free bread for the bruschetta.
- **Seafood Allergy:** No seafood involved.
- **Wine Pairing:** Pair with a light and crisp Sauvignon Blanc or a dry Rosé.

[Recipe for Tomato Basil Bruschetta](#)

Main Course: Herb-Roasted Chicken with Roasted Potatoes and Green Beans

- Juicy herb-roasted chicken breasts served with roasted potatoes and green beans.
- **Gluten-Free Option:** Ensure the seasoning for the chicken is gluten-free and use gluten-free soy sauce if needed for the potatoes.
- **Seafood Allergy:** No seafood involved.
- **Wine Pairing:** Pair with a medium-bodied Chardonnay or a versatile Pinot Noir.

[Recipe for Herb-Roasted Chicken](#)

ChatGPT Response



Dessert: Flourless Chocolate Cake

- A rich and decadent flourless chocolate cake topped with whipped cream or fresh berries.
- **Gluten-Free Option:** Flourless chocolate cake naturally avoids gluten.
- **Seafood Allergy:** Ensure no cross-contamination with seafood during preparation.
- **Wine Pairing:** Pair with a sweet and fortified Port wine or a rich Cabernet Sauvignon.

Recipe for Flourless Chocolate Cake

Pros: These recipes are relatively easy to prepare for novice cooks and accommodate both seafood allergies and gluten-free dietary restrictions. The suggested wine pairings enhance the dining experience.

Cons: Some guests might have additional dietary preferences or restrictions not addressed in this menu, so it's essential to communicate with them beforehand to ensure their needs are met.

Question: Are there any specific preferences or dislikes among your guests that should be considered when planning the menu, aside from the seafood allergies and gluten-free requirement?

Work Smarter, Not

Harder

I need to hire a new Director of Early Intervention and Elementary Support. Create 15-18 interview questions based on this job description [paste job description]. Provide a rubric for each question.



Work Smarter, Not Harder

I'm applying for a Senior Vice President of Educational Strategy. Here is the job description [paste job description]. Create a cover letter for me based on the job description.



Work Smarter, Not

Harder

Create a professional biography for me using my resume [paste resume]. Create a long version of the professional bio and a shorter version less than 300 characters.



Budget

Narrative St narrative for a product called NoRedInk. The budget narrative is for our Board of Trustees and should be 5-6 sentences and include the value NoRedInk adds to enhancing writing instruction for 6-12th grade students.



ChatGPT Response

In evaluating the proposed budget allocation for NoRedInk, it's pivotal to recognize the substantial value this tool brings to our writing instruction across grades 6-12. NoRedInk uniquely tailors its learning environment to each student, leveraging interests to make writing more engaging, thus fostering a more profound development of writing skills. Its comprehensive platform supports grammar, composition, and revision, directly aligning with our district's commitment to enhancing literacy and critical thinking skills. The adaptive nature of NoRedInk not only accommodates diverse learning styles but also facilitates differentiated instruction, enabling teachers to efficiently address the varying needs of students. Investing in NoRedInk aligns with our strategic goals of elevating academic achievement and preparing students for success in higher education and beyond. This budget proposal seeks to empower our educators with the tools necessary to transform writing instruction, thereby making a measurable impact on student outcomes.



Employee Reprimand

Create a reprimand letter for an employee who has been consistently late to work the last six months and is beginning to have performance issues. The employee and I have met once already and this will be the second formal meeting. This meeting will be held to put the employee on an improvement plan



ChatGPT Response



Dear [Employee's Name],

This letter serves as a formal reprimand for the ongoing issues of tardiness and performance that have been observed over the past six months. Despite our previous meeting to address these concerns, there has been no significant improvement in your punctuality, and it is increasingly impacting your work performance and the productivity of our team.

Your consistent lateness undermines the operational efficiency of our department and places additional burdens on your colleagues, who must compensate for your absence. This behavior is not only detrimental to the morale of our team but also contradicts the professional standards we uphold at [Organization's Name].

Given the seriousness of this issue, we are now implementing an improvement plan to help guide your progress over the next [time frame]. This plan will include specific, measurable goals for attendance and performance, regular check-ins with your supervisor, and the provision of any necessary support to assist you in meeting these objectives. Failure to adhere to this plan and demonstrate consistent improvement may result in further disciplinary action, up to and including termination of employment.

ChatGPT Response



We value your contributions to the team and believe in your potential to overcome these challenges. It is our hope that with focused effort and support, you can return to the high standards of professionalism and reliability expected of all employees at [Organization's Name].

Please sign the attached acknowledgment form to indicate your understanding of the contents of this letter and your commitment to the improvement plan. We will meet again on [date] to review your progress.

Sincerely,

[Your Name]

[Your Position]

[Organization's Name]

WORK IMPLICATIONS

How might you (as Financial Leaders), leverage ChatGPT? What tasks take you the longest to complete and can ChatGPT help?



RESOURCES



National AI
Blueprint

<https://bit.ly/aiK12>

ChatGPT Guide Presentation



<https://shorturl.at/prsvS>

CONTACT INFORMATION

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