

72% of people who have daily stress and anxiety say it interferes with their lives at least moderately. **40%** experience persistent stress or excessive anxiety in their daily lives. Only **9%** have been diagnosed with an anxiety disorder.

– Workplace stress & anxiety disorder survey by ADAA 2016

Studies indicate that **50% to 90%** of computer users suffer from visual symptoms of computer vision syndrome. These symptoms include eye strain, dry eyes, eye irritation, blurred vision and double vision.

– American Optometric Association (AOA)

Carpal tunnel syndrome is the most common nerve compression disorder of the upper extremity. This process affects **5%** of the working population who must undergo repetitive use of their hands and wrists in daily living.

– Bureau of Labor Statistics

85% of the US population suffers from back or neck pain at some point in their lives. The second most common reason for visiting a doctor is back pain. Neck Pain affects **45%** of today's workers.

– Back and neck pain statistics

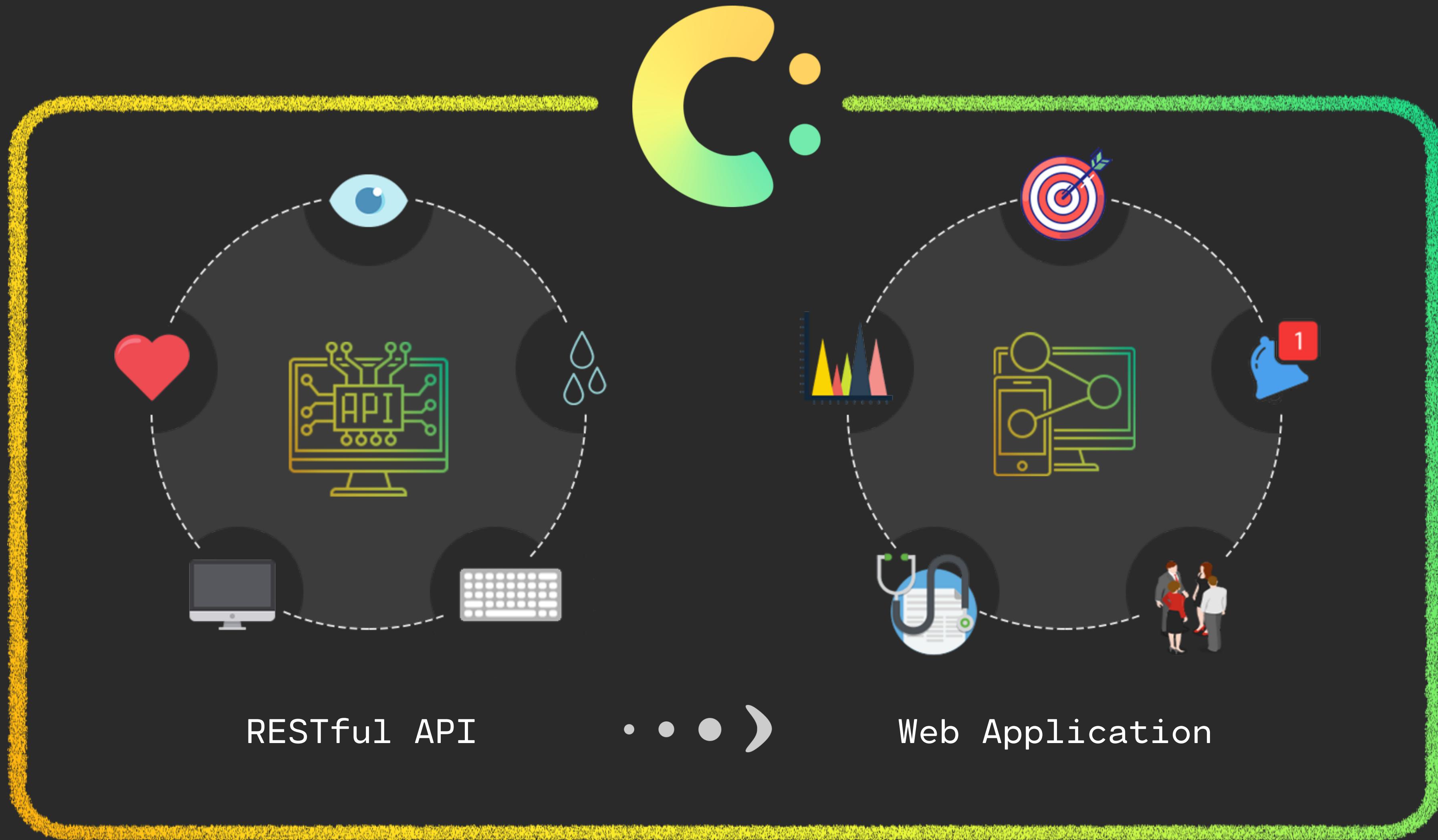


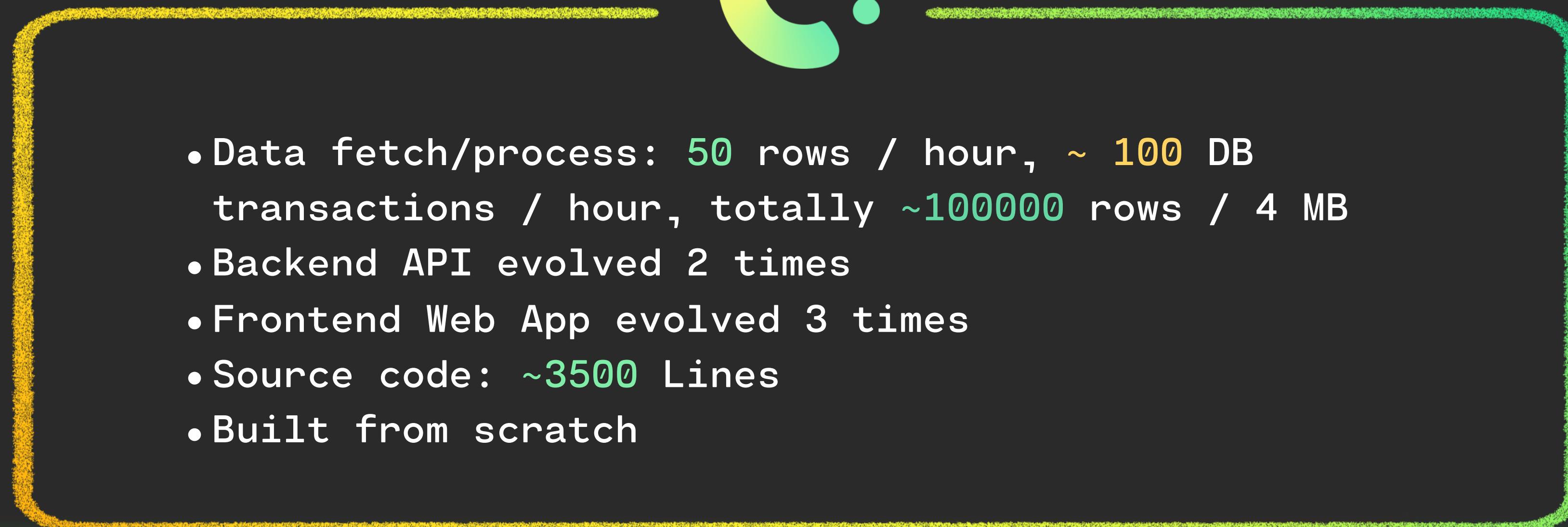
Hey everyone, i'm
healthie!

C: i'm created to



C: *how do i achieve it*







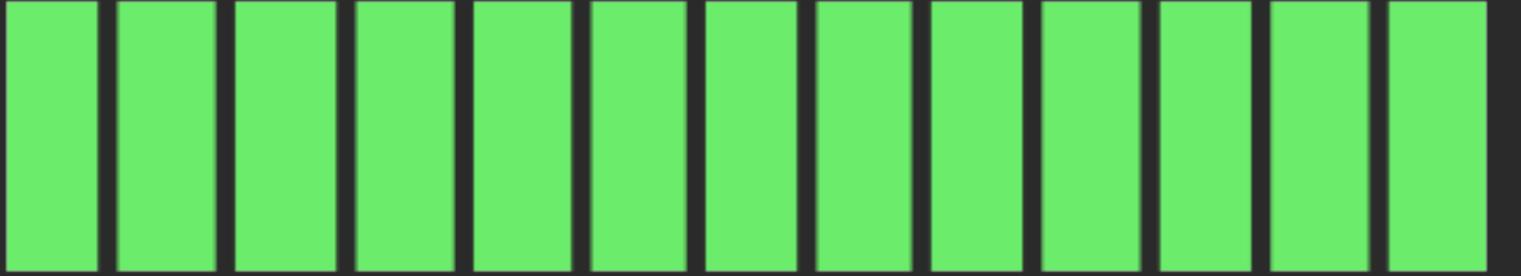
some interesting highlights

- Stress/strain recognition
- Face/eye recognition



Stress/strain recognition

Gradient weight method



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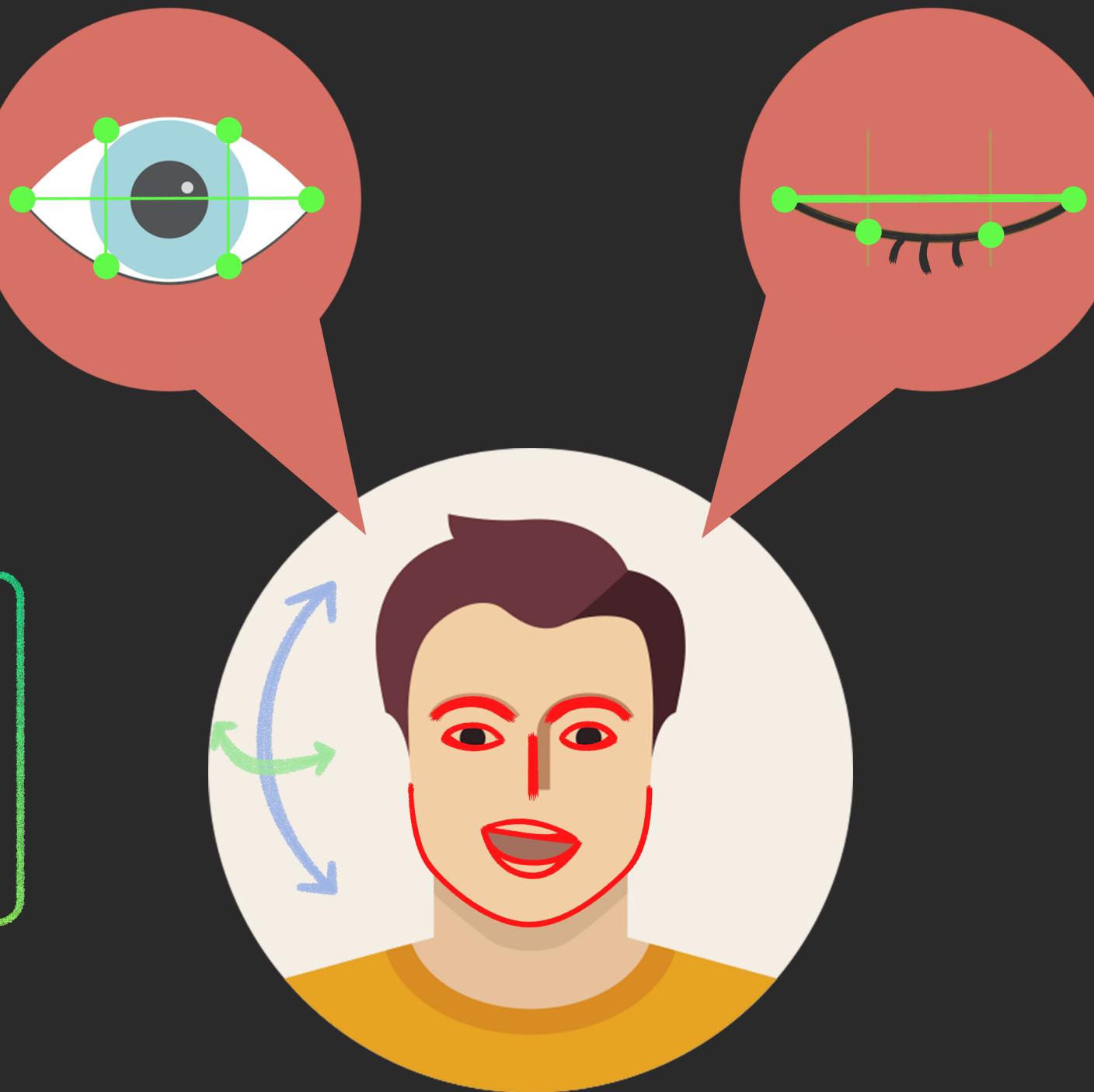


C: Face/eye recognition Adaptive face monitor



C:
OpenCV & dlib
ML algorithm

⋮



	Positive	Negative
TRUE	22	4
FALSE	2	505

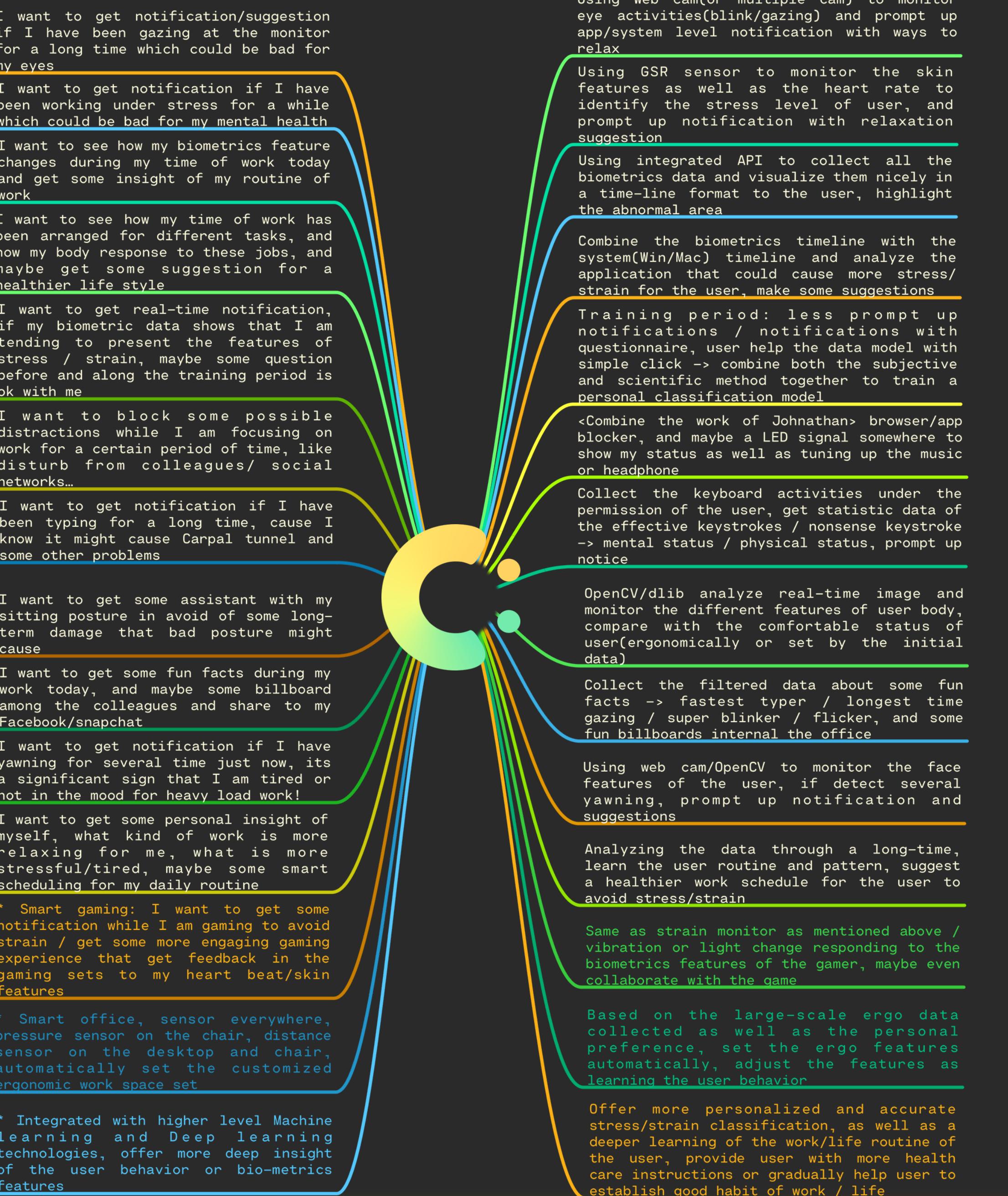
C: Adaptive face monitor



The logo consists of a large, stylized letter 'C' on the left, which is half yellow and half teal. To its right, a teal冒号 character (:) is positioned above the word 'demos' in a white, sans-serif font.

C: demos

*The functionalities in the demos might be different from the true product/beta.





I want to get some assistant with my sitting posture in avoid of some long-term damage that bad posture might cause

I want to get some fun facts during my work today, and maybe some billboard among the colleagues and share to my Facebook/snapchat

I want to get notification if I have yawning for several time just now, its a significant sign that I am tired or not in the mood for heavy load work!

I want to get some personal insight of myself, what kind of work is more relaxing for me, what is more stressful/tired, maybe some smart scheduling for my daily routine

* Smart gaming: I want to get some notification while I am gaming to avoid strain / get some more engaging gaming experience that get feedback in the gaming sets to my heart beat/skin features

* Smart office, sensor everywhere, pressure sensor on the chair, distance sensor on the desktop and chair, automatically set the customized ergonomic work space set

* Integrated with higher level Machine learning and Deep learning technologies, offer more deep insight of the user behavior or bio-metrics features

OpenCV/dlib analyze real-time image and monitor the different features of user body, compare with the comfortable status of user(ergonomically or set by the initial data)

Collect the filtered data about some fun facts -> fastest typer / longest time gazing / super blinker / flicker, and some fun billboards internal the office

Using web cam/OpenCV to monitor the face features of the user, if detect several yawning, prompt up notification and suggestions

Analyzing the data through a long-time, learn the user routine and pattern, suggest a healthier work schedule for the user to avoid stress/strain

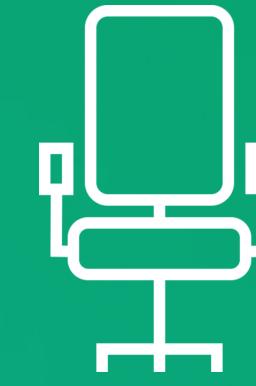
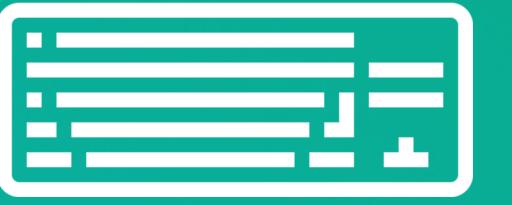
Same as strain monitor as mentioned above / vibration or light change responding to the biometrics features of the gamer, maybe even collaborate with the game

Based on the large-scale ergo data collected as well as the personal preference, set the ergo features automatically, adjust the features as learning the user behavior

Offer more personalized and accurate stress/strain classification, as well as a deeper learning of the work/life routine of the user, provide user with more health care instructions or gradually help user to establish good habit of work / life

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Personal office-health record

Pluggable & modular sensor kit

Gaming fatigue monitor

Sleep quality learning

Adaptive monitor hue adjustment

Voice assistant within headphone

Caffeine / Tea digestion monitor

Yawning detection



my future...

In-office meditation session

Multi-angle posture monitor

Office distraction blocker

Gesture recognition wrist relaxation session

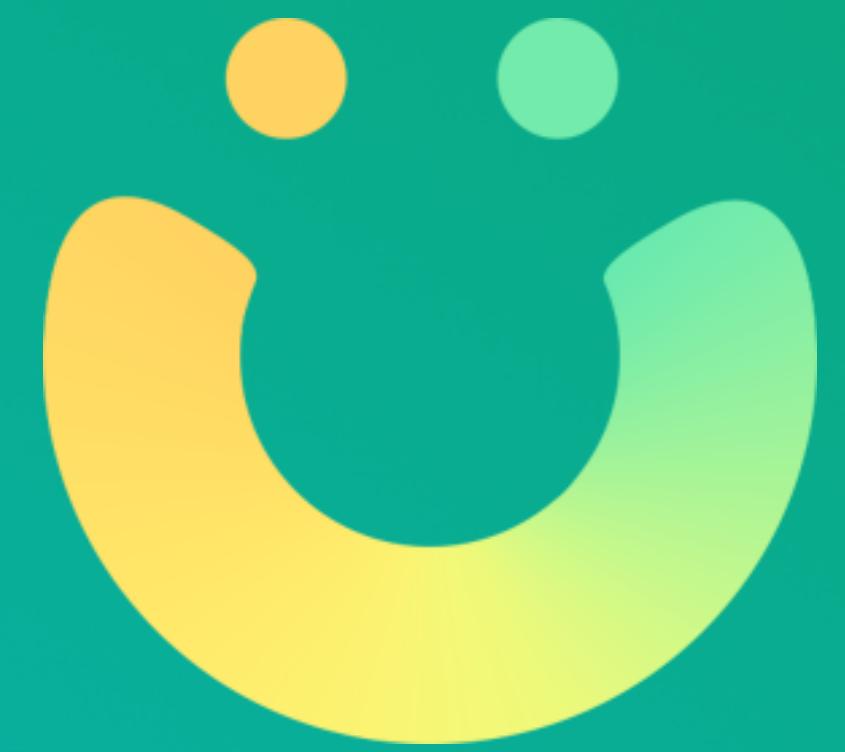
Smart ergo office setup

Smart gaming with bio-monitor

Computer vision based in-office stretching exercises

Mindfulness helper

Calendar event sync



Thank you!

