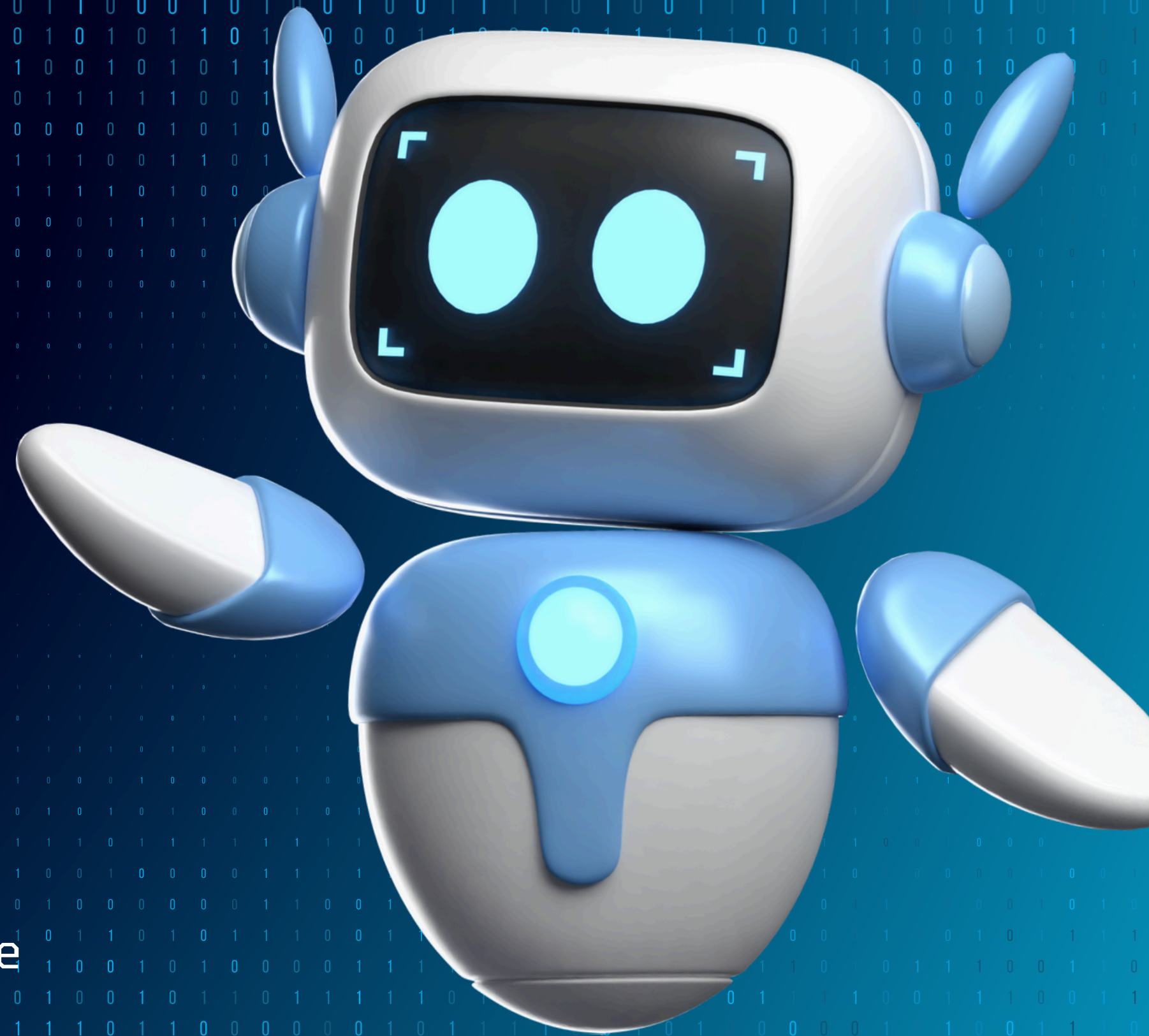


# WHY IAQ IS THE MVP FOR DATA CENTERS AND AI

Let's talk about something most people don't even think about: **Indoor Air Quality (IAQ)** in data centers. Sounds boring, right?

But hear me out—if you care about AI taking over the world (or at least powering your favorite apps), you should care about this.





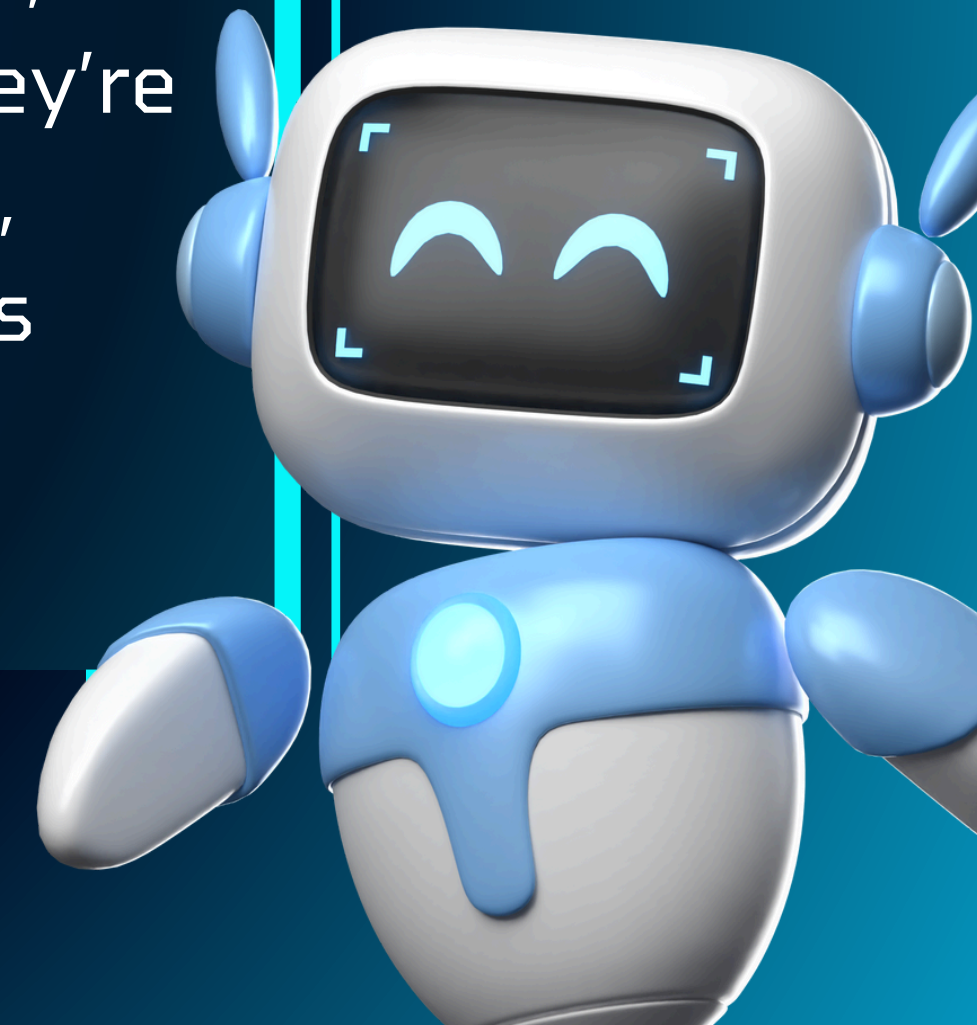
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- ② Why IAQ is Everything
- ③ The Real Threat: Dirty Air = Big Problems
- ④ How IAQ Saves the Day
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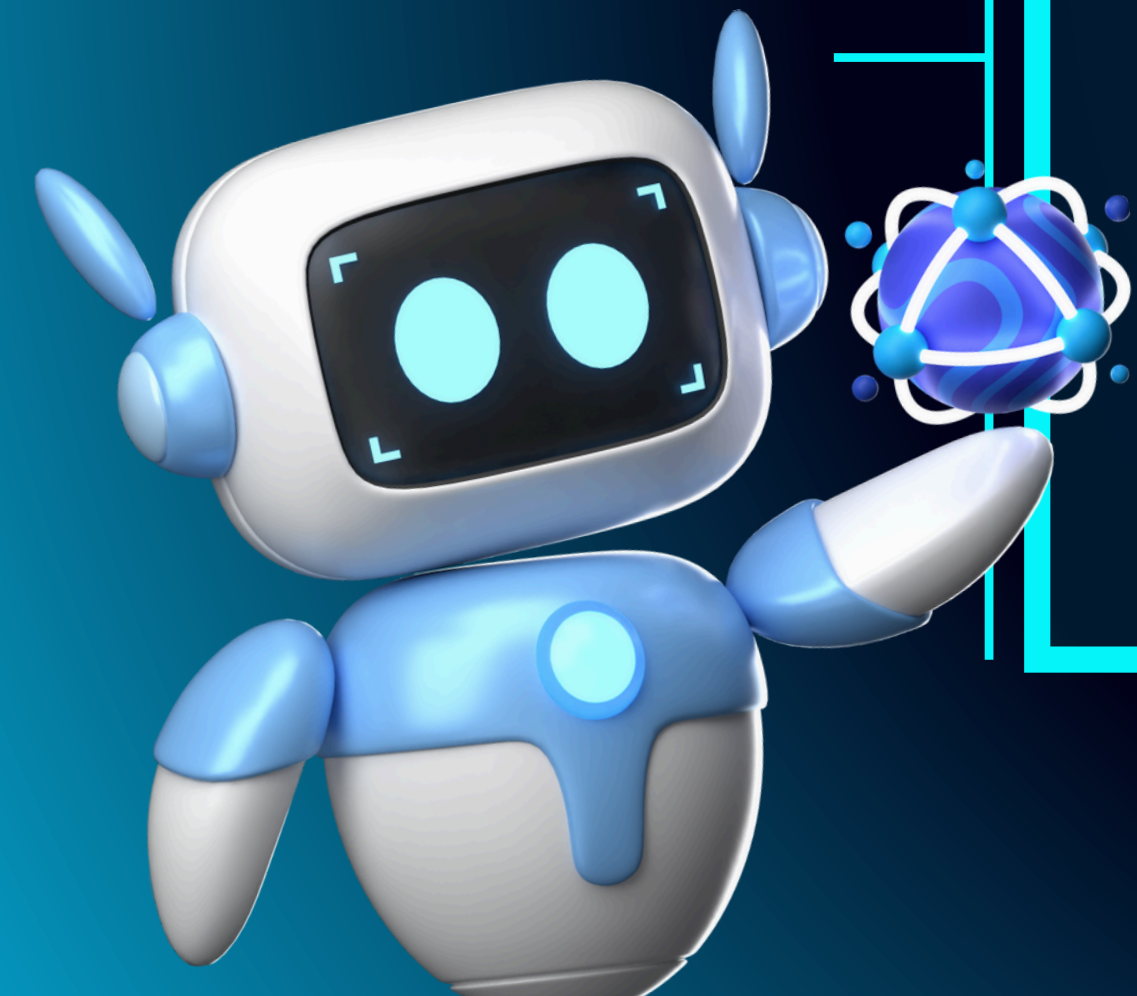
# DATA CENTERS: THE BRAINS BEHIND AI

AI doesn't just exist in some sci-fi cloud. It lives in massive, high-tech data centers—basically, the factories of the digital age. These centers are running non-stop, processing insane amounts of data, which means they're heating up like crazy. To keep them cool and working, they need tightly controlled environments. And guess what? That's where IAQ becomes a big deal.

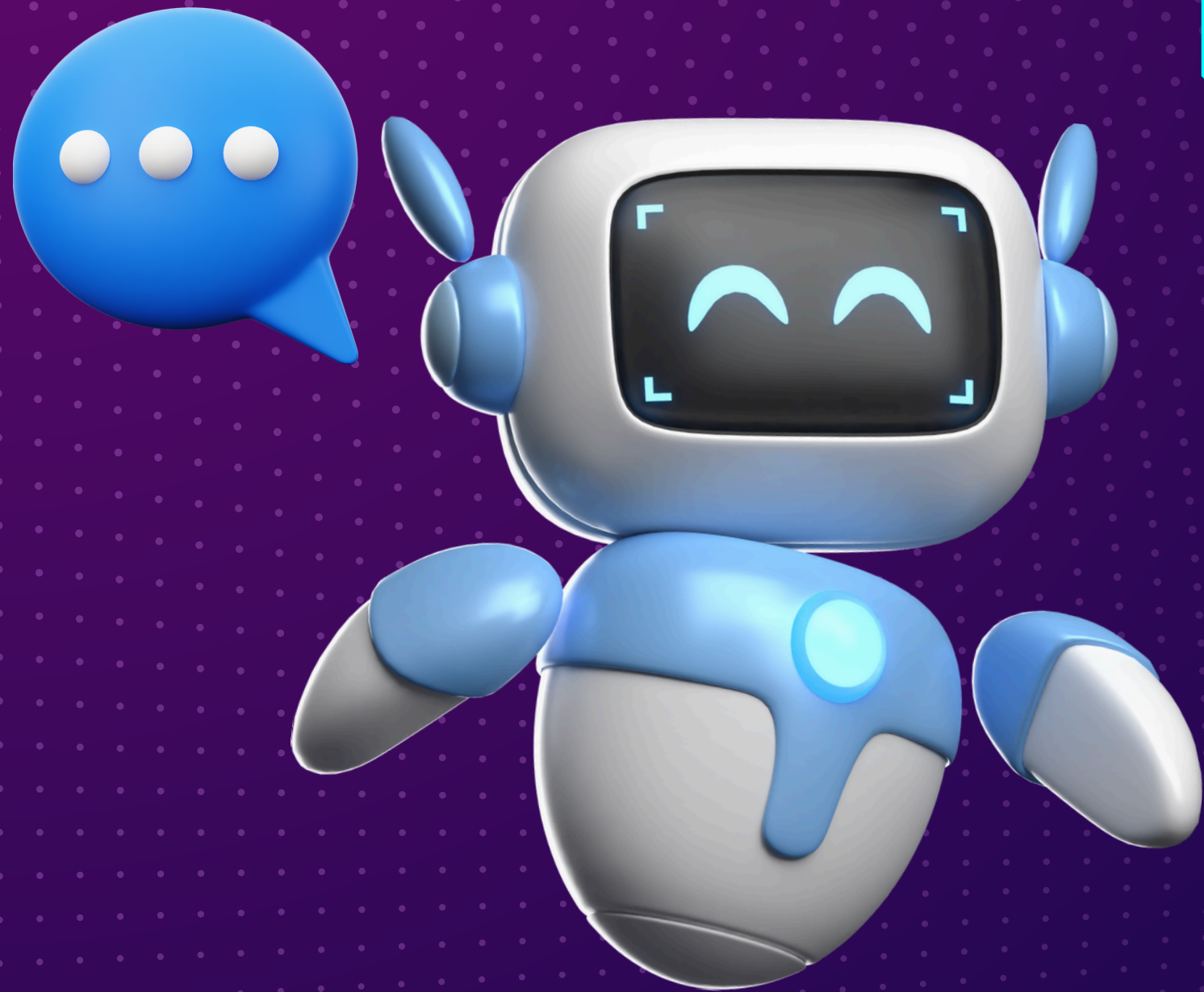


## ② WHY IAQ IS EVERYTHING

Think of IAQ as the secret weapon for data centers. If the air inside isn't clean, it's like trying to play Call of Duty with a laggy connection—things are gonna break, slow down, or just stop working altogether. Dust, pollution, and even tiny chemical particles can mess up the servers that power AI. And if those servers go down, bye-bye to all the cool stuff AI promises us.



## 2 HERE'S WHY IAQ IS CLUTCH



### LONGER LIFE FOR SERVERS

CLEAN AIR MEANS LESS WEAR & TEAR ON THE HARDWARE. THESE MACHINES ARE ALREADY DOING THE HEAVY LIFTING; WHY MAKE THEIR JOB HARDER?

### SAVES ENERGY, SAVES MONEY

POOR AIR QUALITY CLOGS COOLING SYSTEMS, WHICH MEANS MORE ENERGY (AND \$\$\$) TO KEEP EVERYTHING RUNNING. CLEAN AIR = EFFICIENT COOLING.

### KEEPS DATA SAFE

DIRTY AIR CAN LEAD TO MALFUNCTIONS, AND MALFUNCTIONS CAN MEAN CORRUPTED OR LOST DATA. FOR AI, WHERE DATA IS EVERYTHING, THAT'S A DISASTER.

# ③ THE REAL THREAT + WHY IT MATTERS



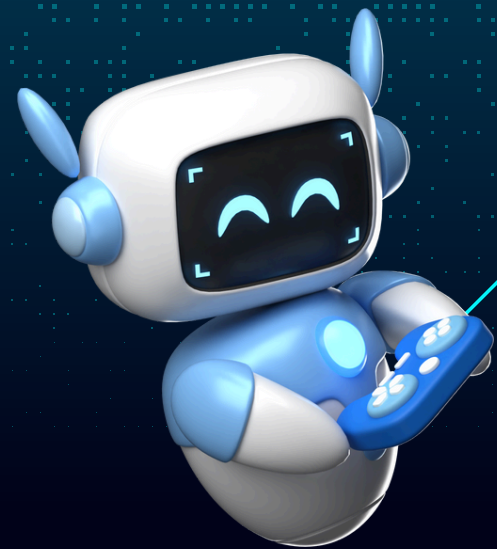
## DIRTY AIR = BIG PROBLEMS

Data centers rely on massive air intake systems to prevent overheating, but when that air isn't clean, it's like inviting unseen enemies into critical infrastructure. Particles, harmful gases, and excessive humidity infiltrate servers, gradually causing corrosion and wear on sensitive components. These issues don't show up overnight, but their cumulative damage leads to inefficiencies and costly repairs, jeopardizing the seamless operation of AI systems.

## PROTECTING AI OPERATIONS

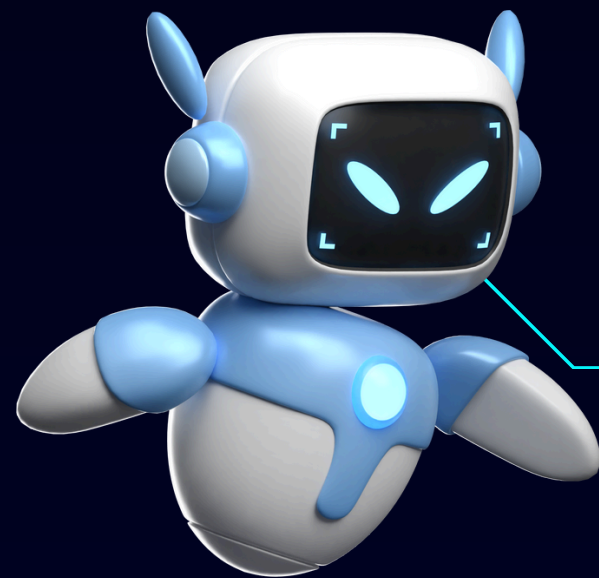
The AI tools and systems running in these data centers are designed for 24/7 performance. Dirty air risks triggering overheating, hardware failures, or sudden shutdowns, which can halt essential processes. The stakes are especially high for initiatives like Stargate, where reliability and uptime are non-negotiable. Clean air doesn't just protect equipment—it safeguards the future of AI-powered innovation.

# 4 HOW IAQ SAVES THE DAY



## DEPENDENCE ON TECHNOLOGY

HEPA FILTERS AND GAS-PHASE FILTRATION ARE LIKE THE BRITA FILTERS OF DATA CENTERS, BUT ON STEROIDS. THEY CATCH ALL THE JUNK BEFORE IT CAN MESS THINGS UP.



## PRIVACY AND DATA CONCERNS

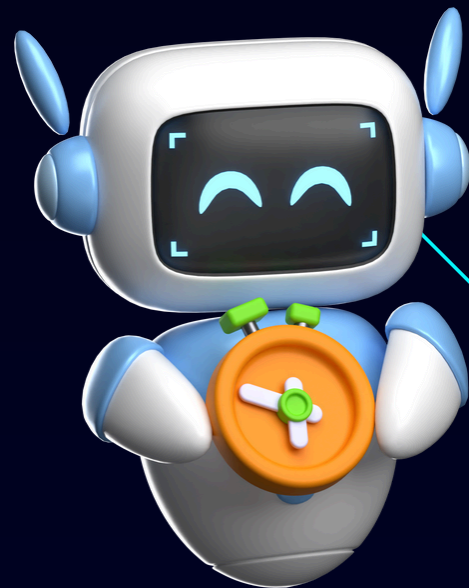
SENSORS TRACK AIR QUALITY 24/7, SO IF SOMETHING'S OFF, IT CAN BE FIXED ASAP. THINK OF IT LIKE A FITBIT FOR AIR.

# 4 HOW IAQ SAVES THE DAY



## POSITIVE PRESSURE SYSTEMS

THIS KEEPS DIRTY OUTSIDE AIR FROM SNEAKING IN—BASICALLY, IT CREATES A PROTECTIVE BUBBLE AROUND THE CENTER.



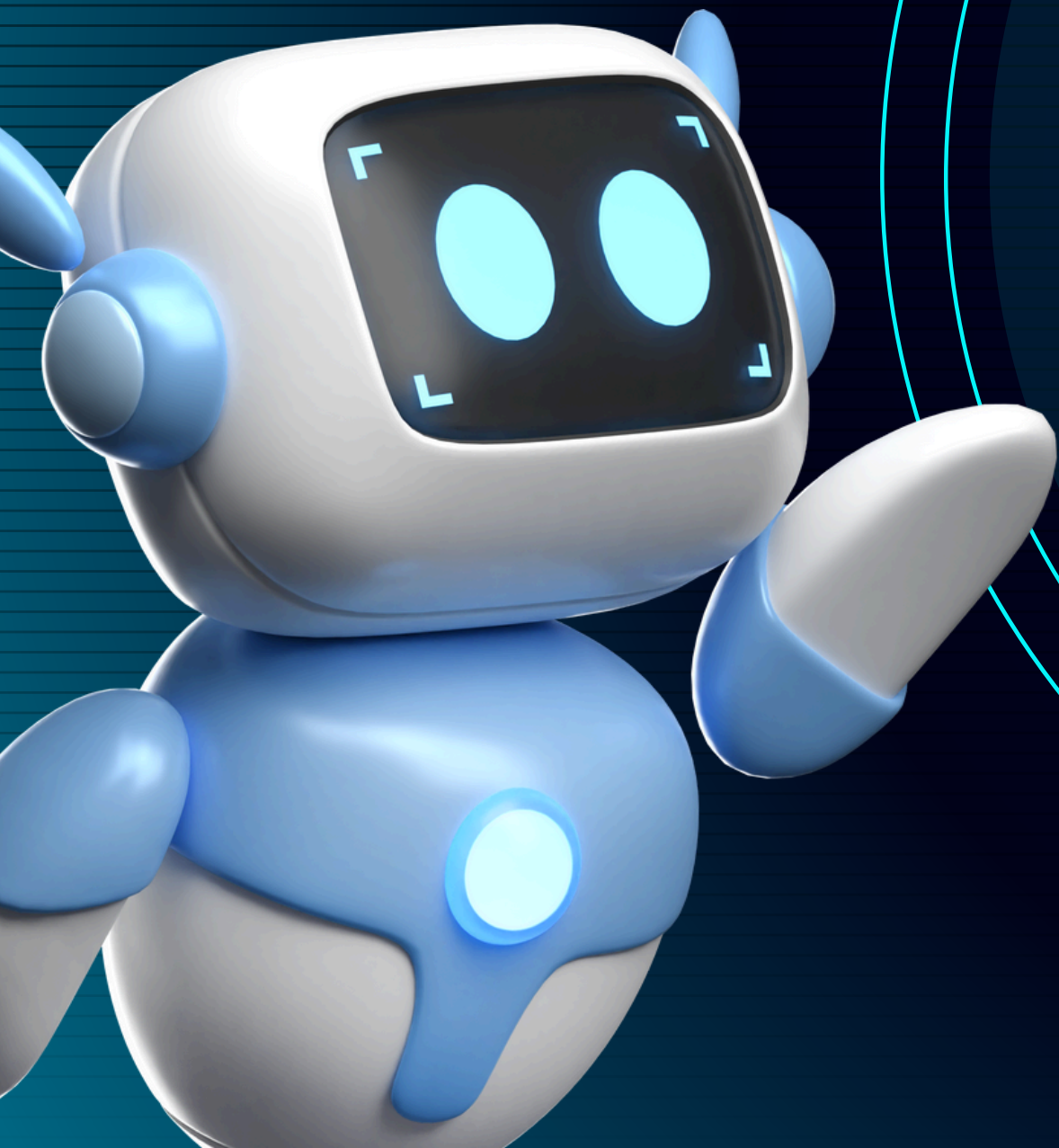
## HUMIDITY CONTROL

TOO MUCH HUMIDITY ENCOURAGES CORROSION, WHILE TOO LITTLE CAUSES STATIC BUILDUP. SPECIALIZED SYSTEMS MAINTAIN THE PERFECT BALANCE TO PROTECT SENSITIVE EQUIPMENT.

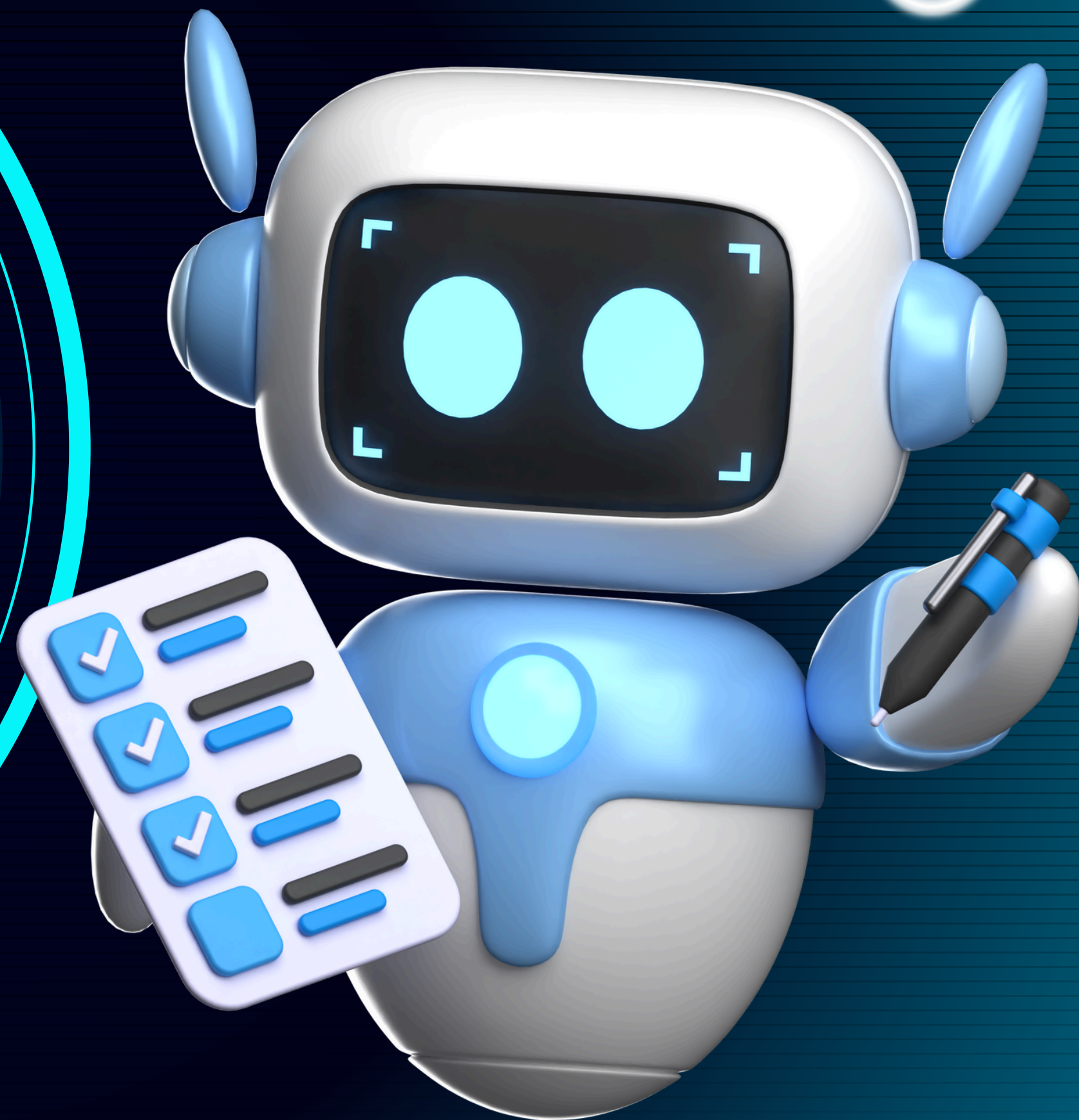


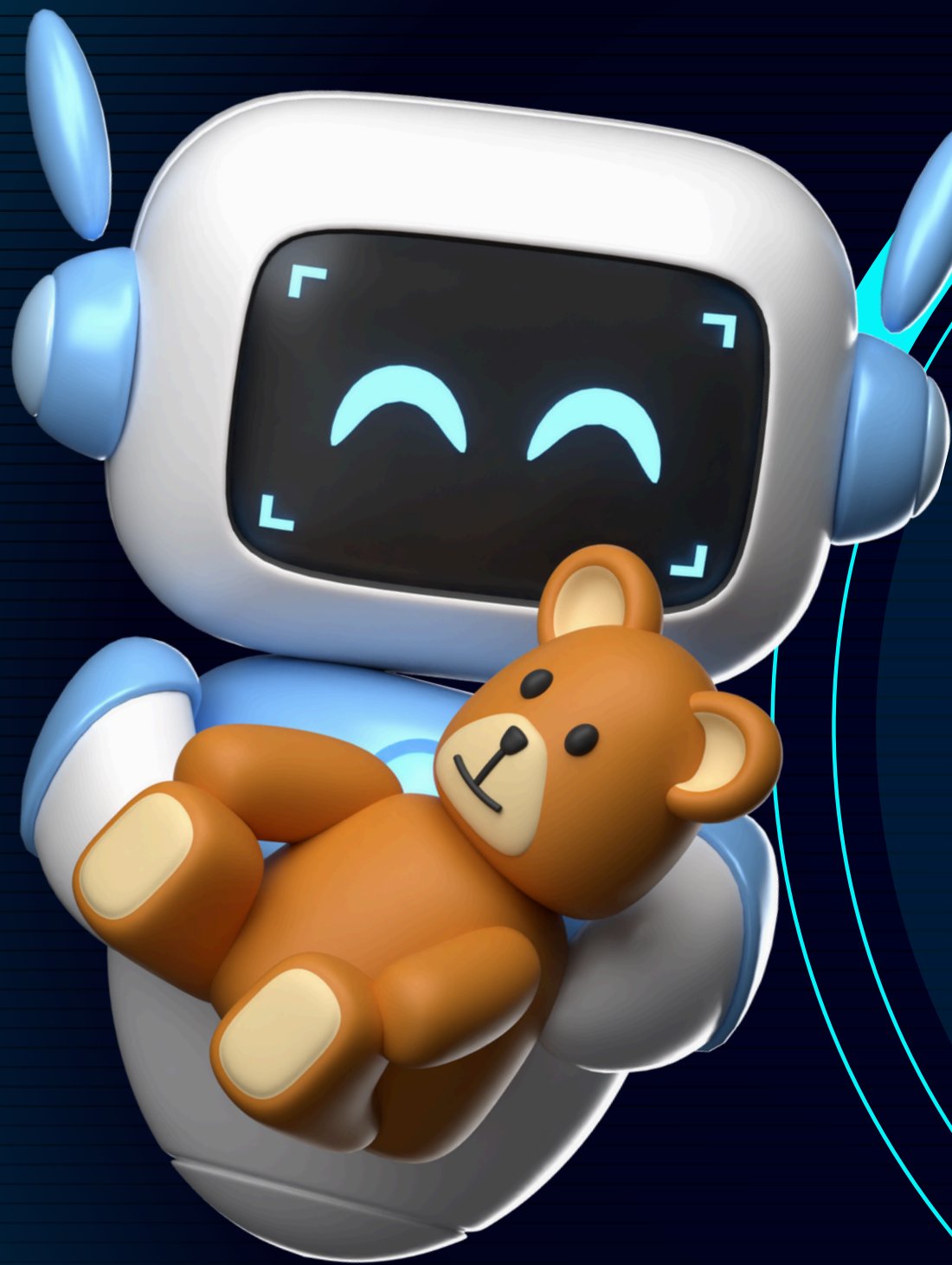
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# WHY THIS MATTERS



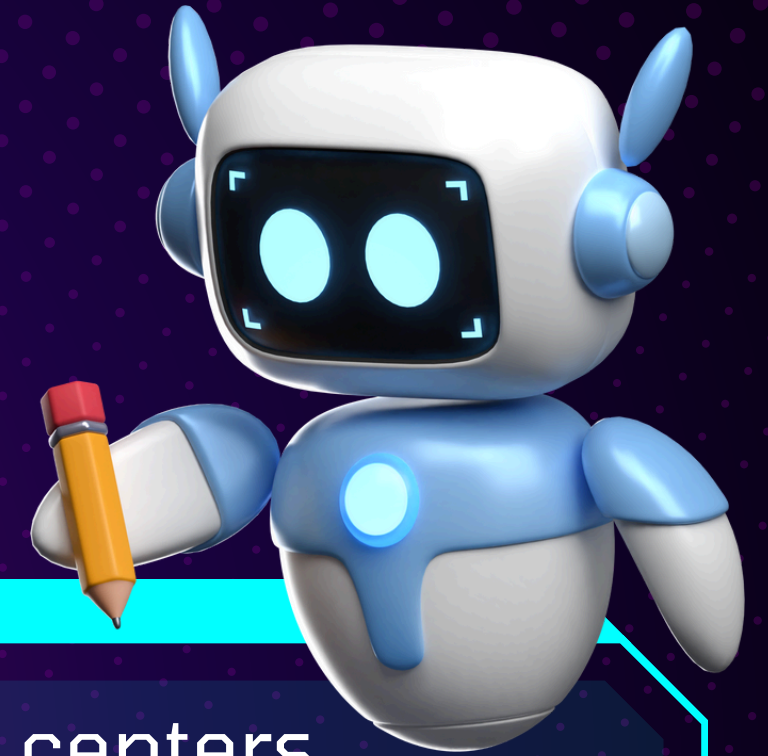
If we're gonna build next-gen AI, especially stuff like Artificial General Intelligence (AGI), data centers need to run flawlessly. AI is a marathon, not a sprint, and it's only getting bigger and more power-hungry. Poor IAQ is like sabotaging your marathon with a rock in your shoe. Clean air keeps the servers happy, which keeps the AI happy, which keeps us happy.





If we want AI to scale up and stay reliable (and eco-friendly), we need to pay attention to the air it breathes. So yeah, IAQ? It's kind of a big deal.

## ⑥ BIGGER PICTURE: SUSTAINABILITY GOALS



Let's be real: AI is already a massive energy hog, and data centers are under a lot of pressure to go green. Optimizing IAQ isn't just about performance—it's also about reducing energy waste. Better IAQ means more efficient cooling systems, which means a smaller carbon footprint. Win-win.

# 7 TL;DR

## THE UNSUNG HERO

IAQ might not be flashy, but it's the unsung hero of the AI revolution.

## BACKBONE OF DATA CENTERS

Without proper IAQ, data centers wouldn't just struggle—they'd fail.

## SCALING AI RELIABLY

If we want AI to scale up and stay reliable, IAQ is non-negotiable.

## ECO-FRIENDLY AI

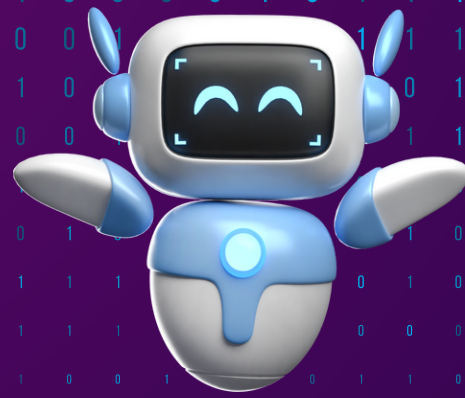
IAQ plays a major role in making data centers more energy-efficient and eco-friendly.

## KIND OF A BIG DEAL

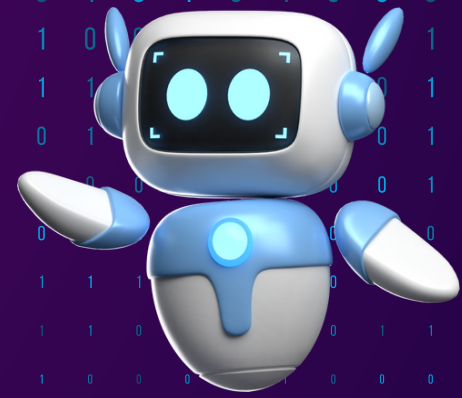
IAQ ensures the future of AI is built to last.



[WWW.COBEAL.COM](http://WWW.COBEAL.COM)



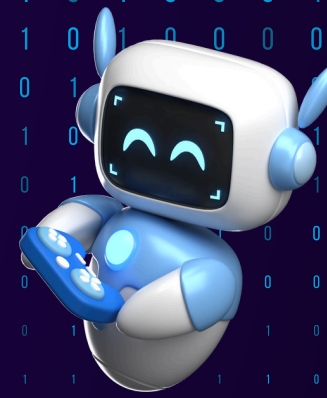
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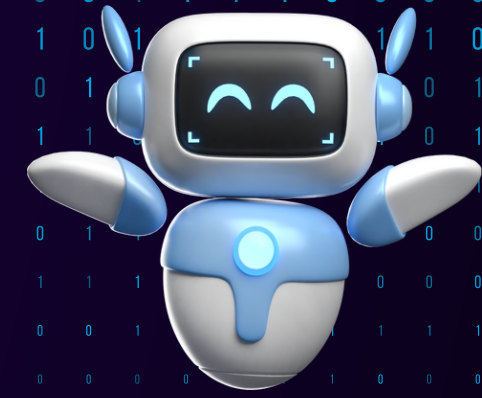
PRESIDENT



CTO



GC



CFO



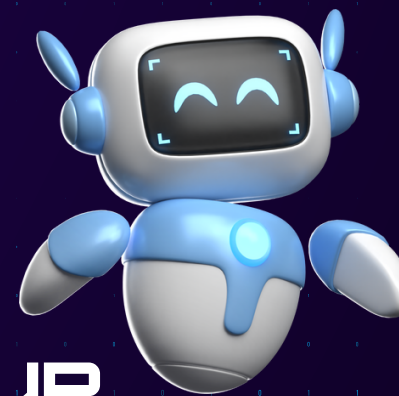
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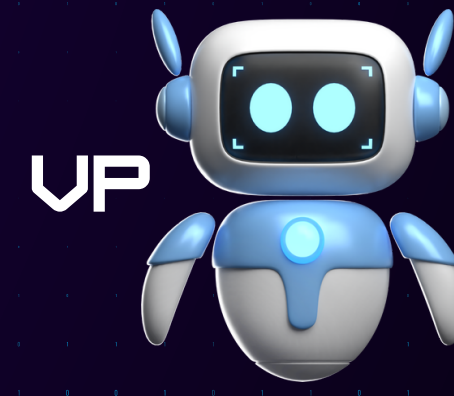
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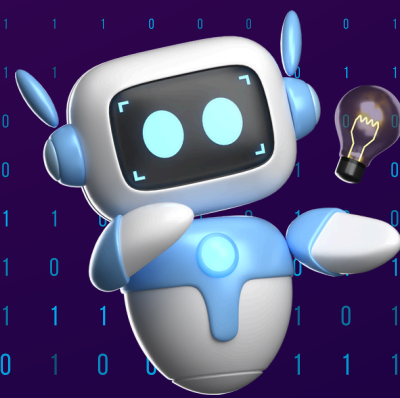
CRO



SVP



VP



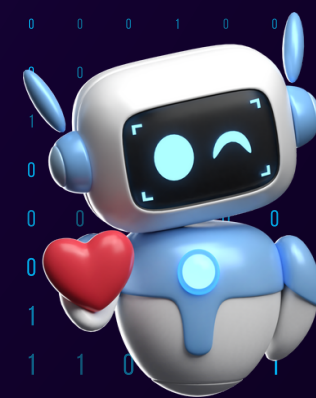
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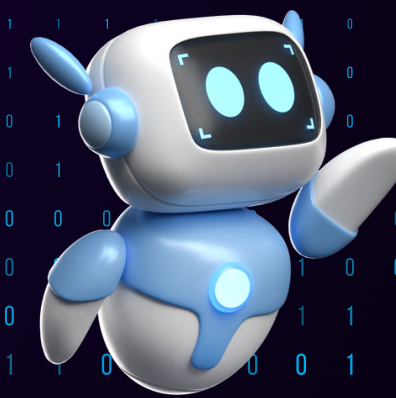
INTERNS



HR



SALES



BIZ DEV