

A photograph of two female runners on a paved path in a park. The runner on the left is wearing a grey tank top and patterned shorts, with a race bib number 216. She is waving with both hands. The runner on the right is wearing a black tank top and orange shorts, with a race bib number 156. She is giving a thumbs up. The background is filled with lush green trees and a stone monument in the distance.

AI History and The Future of AI

General AI Overview

How RunSignup is embracing AI to help Events



Agenda

- AI History
- AI Today
- AI Tomorrow
- RunSignup AI





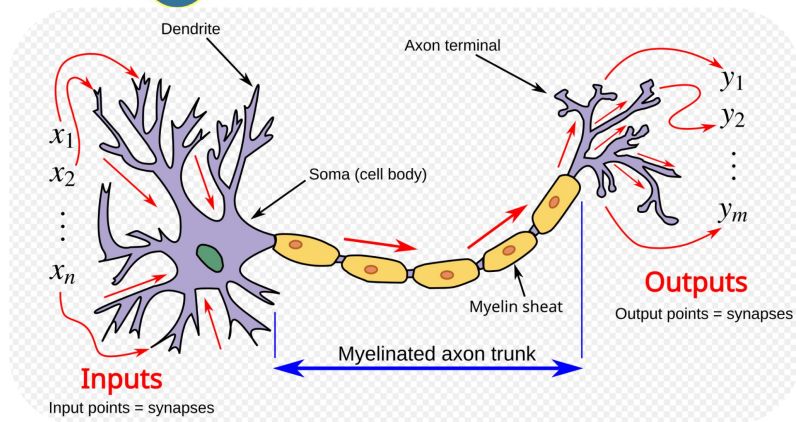
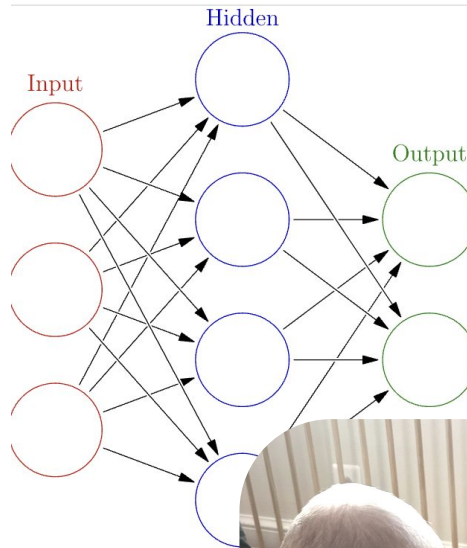
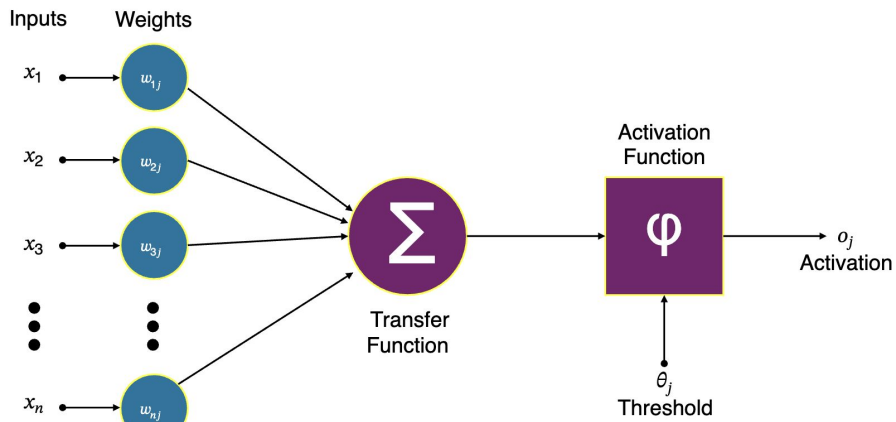
AI History



AI - Historical Context

- 2009 Princeton Picture/Label database begins - ImageNet by [Fei-Fei Li](#)
- 2010-12 Contest won by Univ Toronto with AlexNet (It had 60 million parameters and 650,000 neurons) - [Alex Krizhevsky](#) in collaboration with [Ilya Sutskever](#) and [Geoffrey Hinton](#). Triggers Deep Learning (on Nvidia using CUDA)
- 2012-22 - Machine Learning Specific applications - eg. Bib Tagging in 2016 on RunSignup
- December, 2015 OpenAI Founded
- 2017 - [Google Transformer paper](#)
- 2021 Nvidia Revenue \$16B
- July, 2022 - MidJourney Released to public
- November, 2022 - ChatGPT Released to public - General Intelligence realized
- 2024 - RunSignup begins CoPilot for Development - 0-5% productivity improvement
- Today - Nvidia Revenue TTM \$148B, ChatGPT is 5th most visited website

Neurons & Neural Networks



AI Today

- Meta, Microsoft, Google will spend \$200 Billion on AI this year
- General Intelligence Models are Maturing Quickly - ChatGPT 5, Gemini 2.5, Llama 4, Claude 4, Grok 4
- DeepSeek V3 or R1 - Open source and blew market open in December, 2024
 - 670 Billion Parameters (10,000X 2012) & Chain of Thoughts (early Reasoning) & Mixture of Experts

*"If you are training **one single speech recognition machine learning model** these days, one, just one model, the **number of math operations like adds or multiplies** to accomplish it is actually **greater than the number of grains of sand on the earth.**"*

**Nvidia Blackwell Processor - 144 PetaFlops -
144,000,000,000,000,000 floating point operations per second**

DeepSeek Example

- DeepSeek-V3, a strong Mixture-of-Experts (MoE) language model with 671B total parameters with 37B activated for each token.
- Pre-train DeepSeek-V3 on 14.8 trillion diverse and high-quality tokens
- DeepSeek-V3 required only 2.788M H800 GPU hours for its full training.



Stargate Initial Phase - 400,000 GPU's
- **Less than a Day to Complete Deepseek Training**

Google Gemini Token Growth



1 Million tokens is equivalent to about 750,000 words.
Approximately the number of words in over
500,000,000 copies of War and Peace.

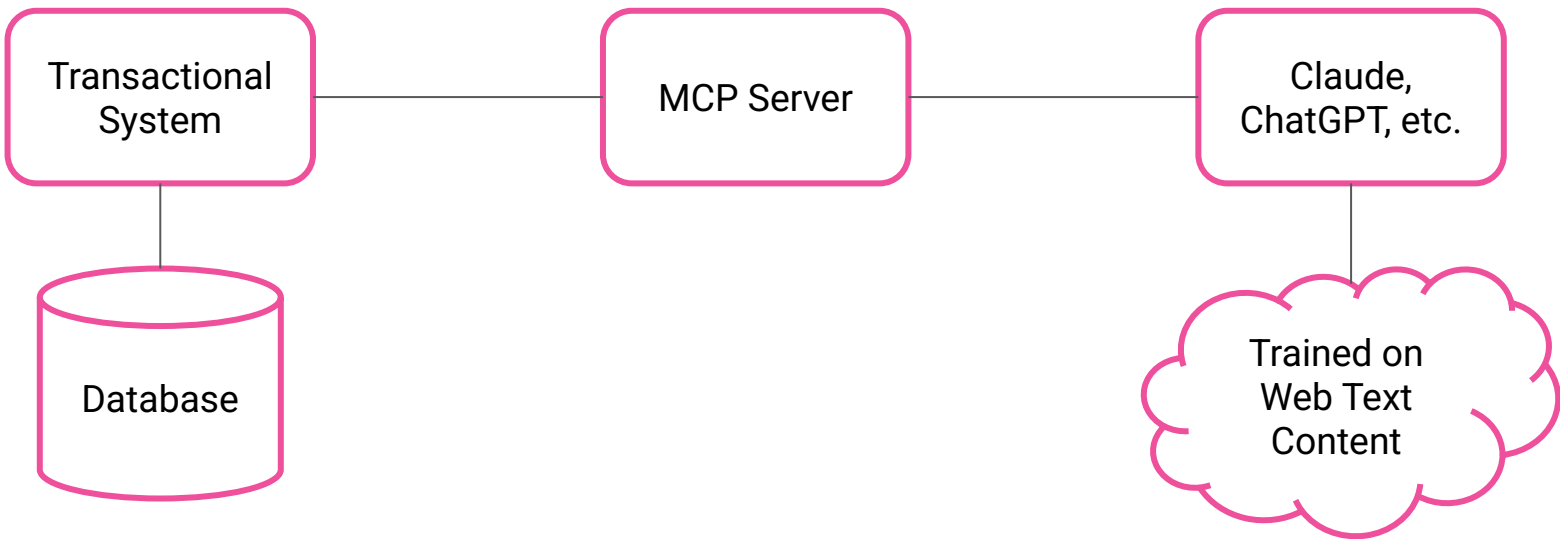
ChatGPT Advances Past 12 Months



Summary of Key Capabilities

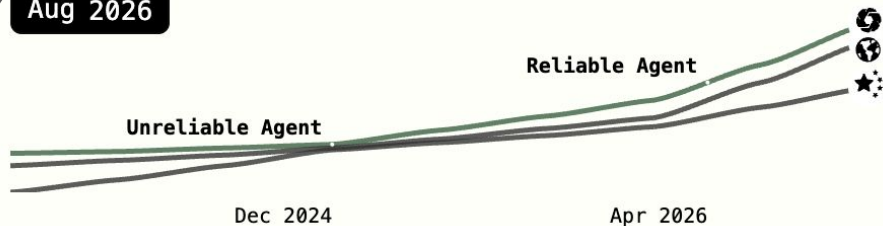
Capability	Why It Matters
Memory	Personalized, context-aware support over time
Reasoning	Handles complex multi-step tasks with logic
Agents/GPTs	Persistent, reusable assistants with tools
File Analysis	Instant spreadsheet and doc analysis
Web Browsing	Fresh, real-time data integration
Multimodal	Combines voice, images, text for richer input/output

MCP - How LLM's Talk to Transactional and Database Systems like RunSignup

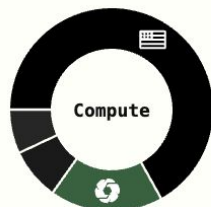


AI 2027 - ai-2027.com

Aug 2026



AI CAPABILITIES



50,000 Reliable Agent copies thinking at 15x human speed



50,000 "Reliable Agents"
Each 15X a Human

This bar measures the Hacking ability of the current top performing AI.

A score of 1.3 indicates that the top performing AI is in the range of a professional in this domain.

Amateur Human Pro Superhuman Superhuman+

This graph shows how much AI systems are speeding up the process of AI research, compared to a baseline of human researchers. We also highlight milestones in general capabilities as AI systems achieve them.

As of Sep 2027, the AI systems provide the following speedsups:

Oct 2027

🌐 OpenBrain:	50.00x
🌟 Leading Chinese Lab:	14.00x
🌐 Best public model:	8.80x

Superhuman AI Researcher

Reliable Agent

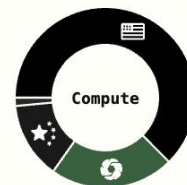
Superhuman coder

Apr 2026

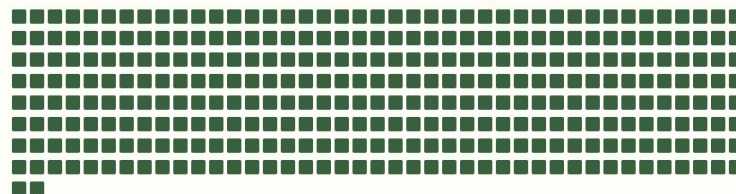
Mar 2027

Aug 2027

AI CAPABILITIES



330K Superhuman AI Researcher copies thinking at 57x human speed



330,000 "Superhuman AI
Researchers"
Each 57X a Human

Learn More About AI

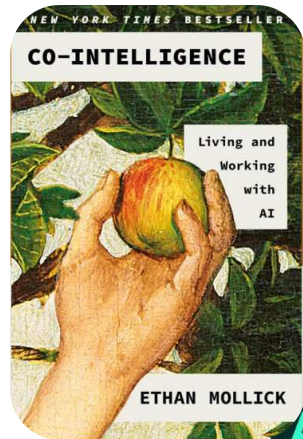
[Co-Intelligence: Living and Working with AI by Ethan Mollick](#) - book that explains how AI can be used. The perfect place to start.

[Acquired Podcast - Nvidia Episodes, especially #3](#) - Great podcast, and there are other excellent (long) episodes that touch on AI.

[Acquired Podcast - Vercel Vibe Coding](#) - What got us started on v0.dev

[Dario Amodei, Anthropic Founder Interview](#) - Lex Fridman podcast

[Dennis Hassabis, Google DeepMind](#) - Hard Fork Podcast



RunSignup AI

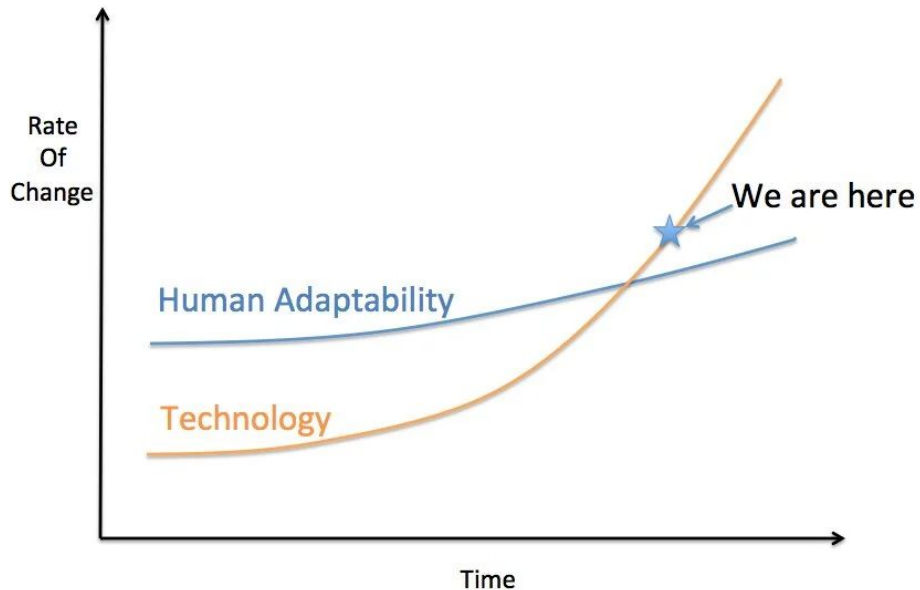
*How RunSignup is Helping Events
Harness the Power of AI*



RunSignup

Helping Events With the Rate of Change

- Thomas Friedman - 2016
- Technology is changing faster than we humans can keep up.
- RunSignup is trying to make AI useful for our customers
- Events are likely to continue to be sought after by humans, and are likely to continue to require humans to operate them



First Steps for RunSignup

- **Apr '24** - Enabled Github Copilot
- **May '24** - Recommended [Queue.ai](https://queue.ai) for Chatbot
- **Dec '24** - Rich Friedman (CTO Noom) Discussion
- **Jan '25** - 25 Friedman Demo

“Year of AI”

- **Jan '25** - Many developers play with Cursor
- **Feb '25** - Cursor implemented for all developers
 - Custom Rules and Security Precautions



Cursor AI Example - UX Generation

Original

Cursor Generated

Participant Details

Full Name

First Name Last Name

Age

e.g., 23

Date of Birth

mm-dd-yyyy

Date

Email

example@example.com

Phone Number

Area Code Phone Number

Address

Street Address

Street Address Line 2

City State / Province

Postal / Zip Code

Picture / Avatar

Browse Files

Emergency Contact Person

First Name Last Name

Emergency Person Phone Number

Area Code Phone Number

Relationship to Emergency Contact Person

Participant Details

First Name *

Last Name *

Email *

example@example.com

Phone Number *

() - -

Age *

Date of Birth *

mm/dd/yyyy

Street Address *

Street Address Line 2

City *

State *

Select State

ZIP Code *

Picture / Avatar

Browse Files

Emergency Contact Name *

Phone Number *

() - -

Relationship *

Select Relationship

20%+ Productivity Improvement

Growth of Cursor in 1 Month			
	June	July	Growth
Lines Suggested (Adds and Deletes)	88,152	277,532	315%
Lines Accepted (Adds and Deletes)	41,577	97,316	234%
Chat Accepts and Applies	3,609	9,964	276%
Tabs Accepted	9,026	22,332	247%



RunSignup AI for Vibe Coding

- New Generation of AI Development
 - Prompt Development
 - V0.dev
- RunSignup adds OpenAPI and OAuth2
- RunSignup Platform for Vibe Coding
- Participant & Attendee Applications and Agents
 - Find a Race
 - Results Kiosk & Results Printing
 - Top Fundraiser Leaderboard
- RunSignup & TicketSignup Dashboard Extension
 - TicketSignup Timed Entry Dashboard
 - Custom Reports and Dashboards

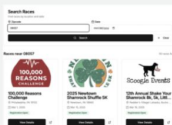
Find a Race Application



Create a Paper Registration Form Application



Race List Application



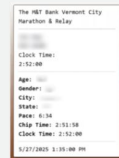
Top Fundraisers Leaderboard Application



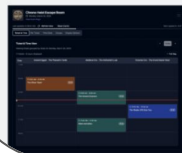
Results Kiosk Application



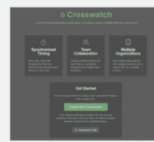
Results Receipt Application



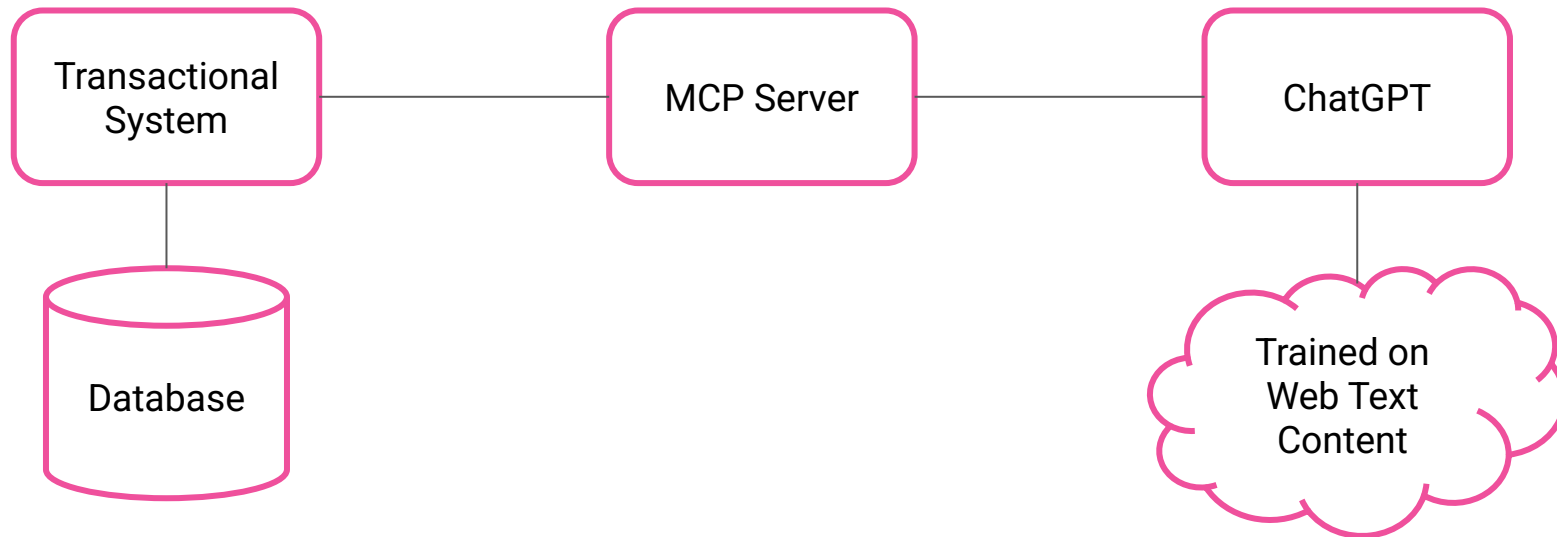
Timed Entry TicketSignup Dashboard Application



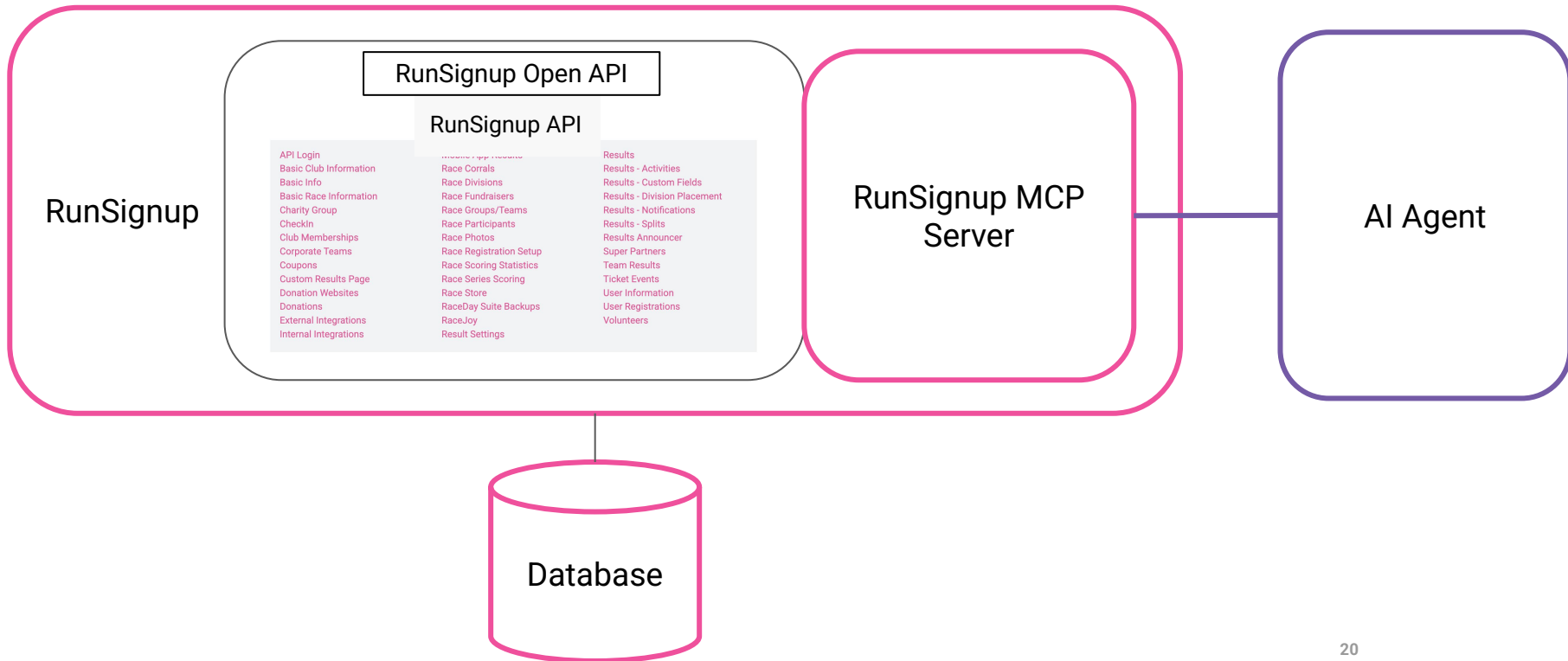
Multi-Location Time Syncing Application

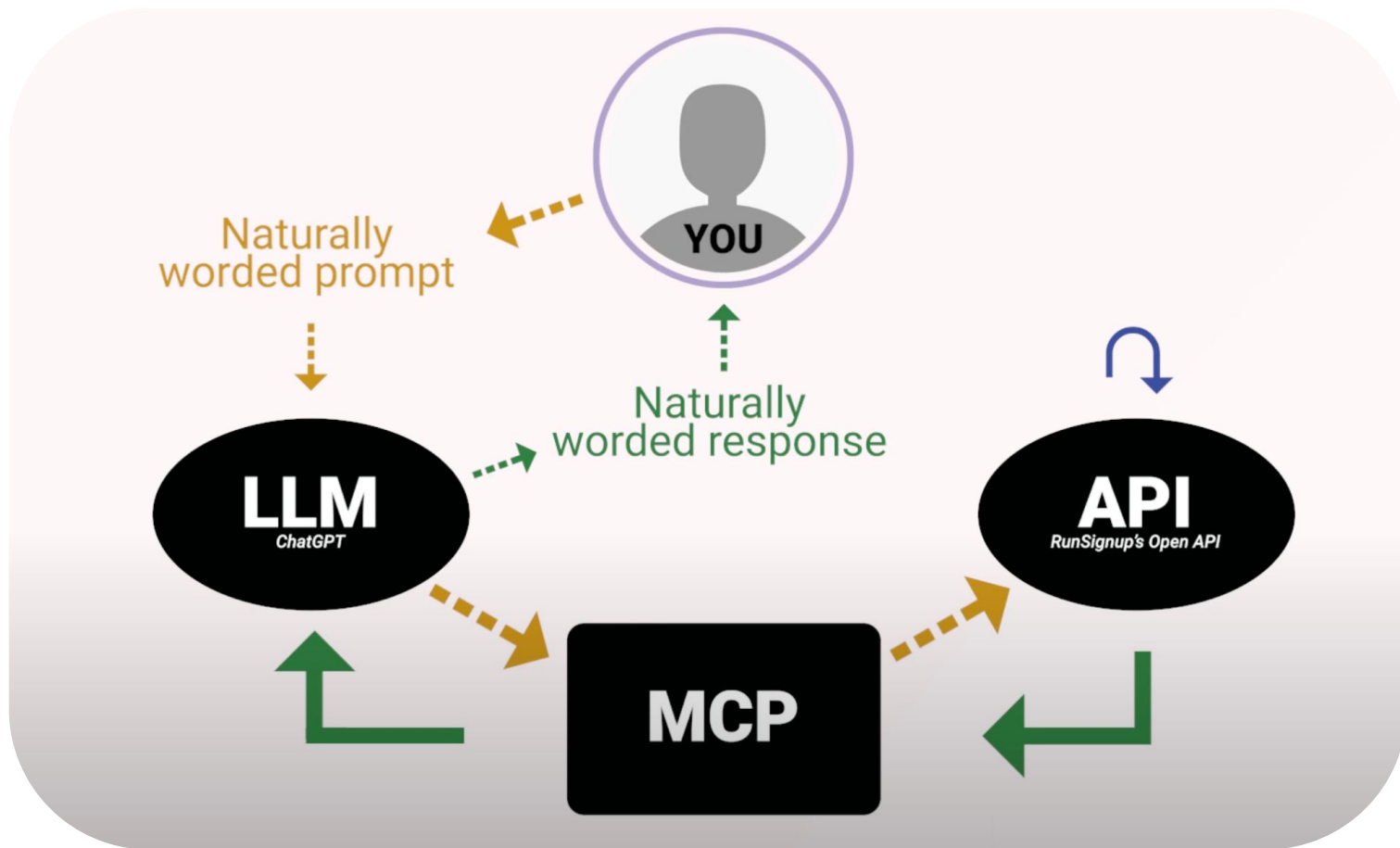


Recall MCP

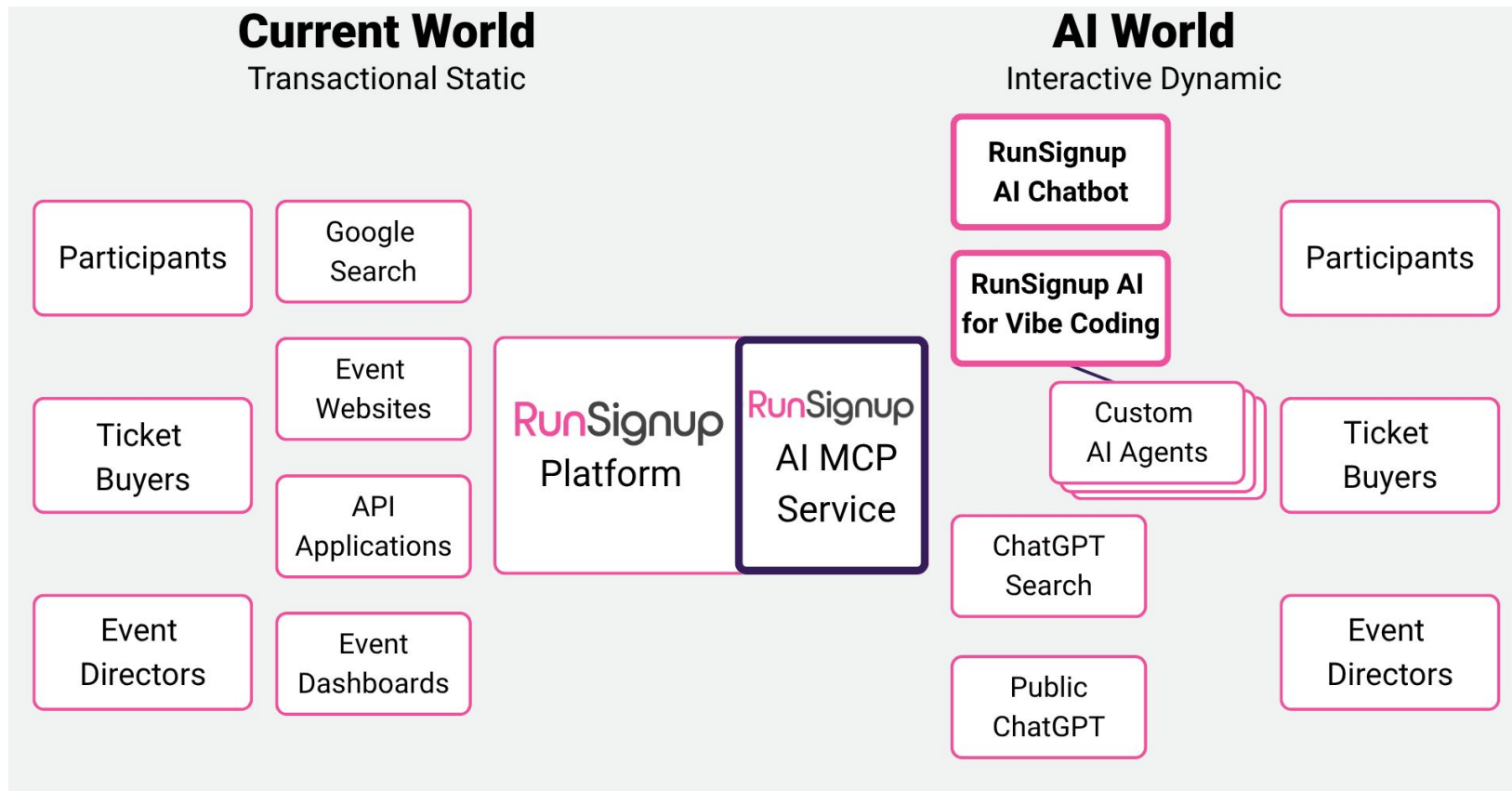


RunSignup MCP





AI is the New User Interface

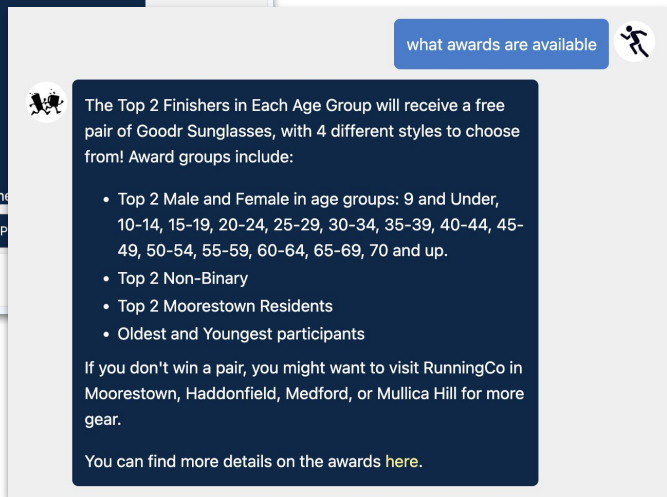


RunSignup AI Chatbot

- Free Website V2 Chatbot
- Auto-trained on your Website Content
- Auto-connected with Event Data
- Daniel Beasley, founder of [Queue.ai](https://queue.ai)
- Jon Maron, Senior Developer
- Limited Availability - Join the Waitlist - <https://runsignup.com/chatbot>

"We saw an 80% reduction in emails, participants were getting answers faster than we ever could, and we're now saving 5-10 hours a week on support."

David Hutnik, Coastal Race Productions



RunSignup AI Chatbot

The screenshot shows the Swiss Mountain Club website. The header includes a 'Join' button and a navigation menu with 'Info', 'Join Now', 'Contact Us', 'My Membership', 'Membership Lookup', and 'More'. The main banner features a kayaker on a river with the text 'Swiss Mountain Club' and 'Breckenridge, CO 80424 US'. Below the banner, there are three membership level cards: 'Basic Membership' (from \$127.96), 'Hiking Club' (from \$212.60), and 'Photography Club' (from \$64.48). Each card has a 'Join Now!' button. An AI chatbot overlay is positioned in the bottom right, displaying a conversation where the user asks for help, the chatbot provides a link to photos, and the user requests a better response.

Swiss Mountain Club
Breckenridge, CO 80424 US

Membership Levels

- Basic Membership**
from **\$127.96**
1 Year Membership: **\$127.96**
Join Now!
- Hiking Club**
from **\$212.60**
1 Year Membership: **\$212.60**
Join Now!
- Photography Club**
from **\$64.48**
1 Month Membership: **\$64.48**
Join Now!

Swiss Mountain Club Chat
Available

Hi! How can I help you today?

Photos

You can find the photos from the race here: [Swiss Mountain Club Photos](#)

Train Better Response

Please provide your full name (first and last), and I will look up your race results for you.

Train Better Response

+ Send Us An Email + Results + Photos

Ask anything...

The screenshot shows the RunSignup AI chatbot interface. The header includes a 'Join' button and a navigation menu with 'Info', 'Join Now', 'AI Chat', 'My Membership', 'Membership Lookup', and 'More'. The main chat window displays a conversation where the user asks for help, the chatbot provides a link to photos, and the user requests a better response. Below the chat window, there are two sections: 'Event Countdown' and 'Location'. The 'Event Countdown' section shows a timer for 01 month, 21 days, 16 hours, 56 minutes, and 56 seconds. The 'Location' section shows a map and the address 3457 Oak Ridge Court, Breckenridge, CO 80424 US.

Swiss Mountain Club Chat
Available

Hi! How can I help you today?

Photos

You can find the photos from the race here: [Swiss Mountain Club Photos](#)

Train Better Response

Please provide your full name (first and last), and I will look up your race results for you.

Train Better Response

+ Send Us An Email + Results + Photos + Parking + Co

Ask anything...

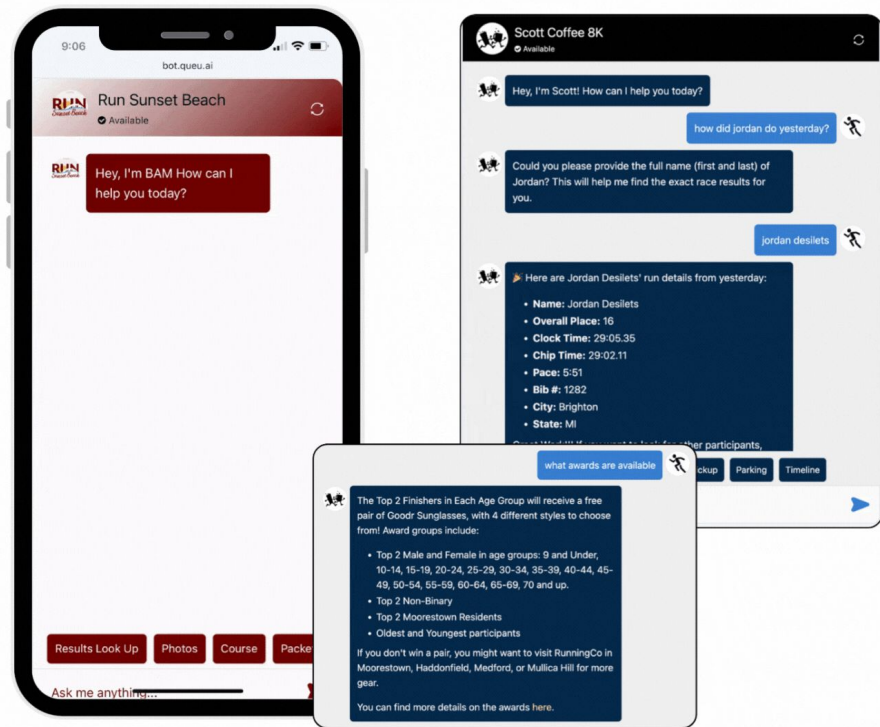
Event Countdown
Get ready for the event!

01 MONTHS 21 DAYS 16 HOURS 56 MINUTES 56 SECONDS

Location
3457 Oak Ridge Court
Breckenridge, CO 80424 US

RunSignup | TicketSignup AI Chatbot

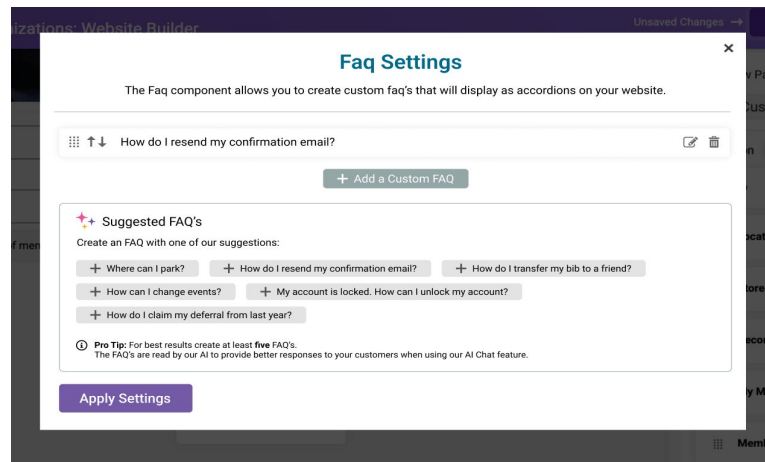
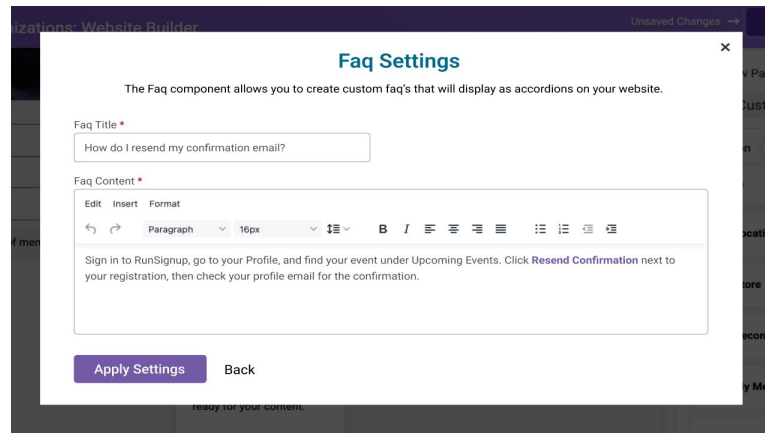
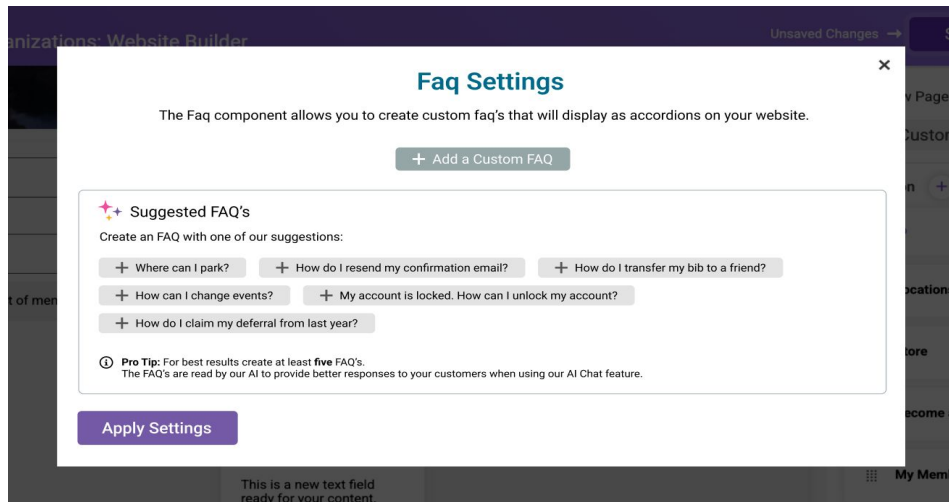
- Chatbot handles repetitive questions
 - Where is packet pickup?
 - Where do I park?
 - What time does the 10k start?
 - Are dogs allowed on the course?
 - What are awards?
 - Are there refunds?
 - Where's my confirmation email?



Chatbot Understands Dynamic Data

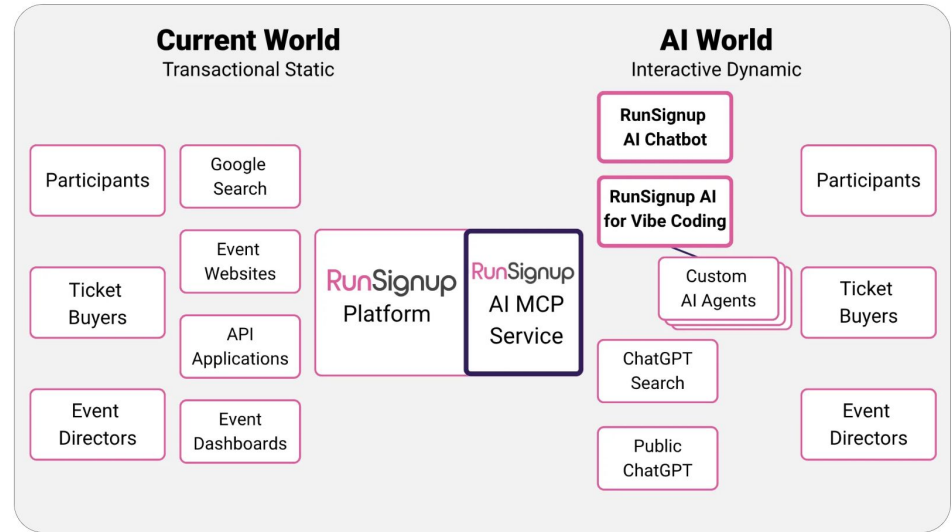
- Understanding when website updates occur and new content and/or data is available
- Event info that changes
 - “When does the price go up?”
 - “When does registration close?”
 - “Am I registered for this race?”
- Results
 - “What was my time?”
 - “How did I finish compared to Daniel Beasley?”
 - “What’s my bib number?”
- Photos
 - “Are there any pictures of me crossing the finish line?”

FAQ Component

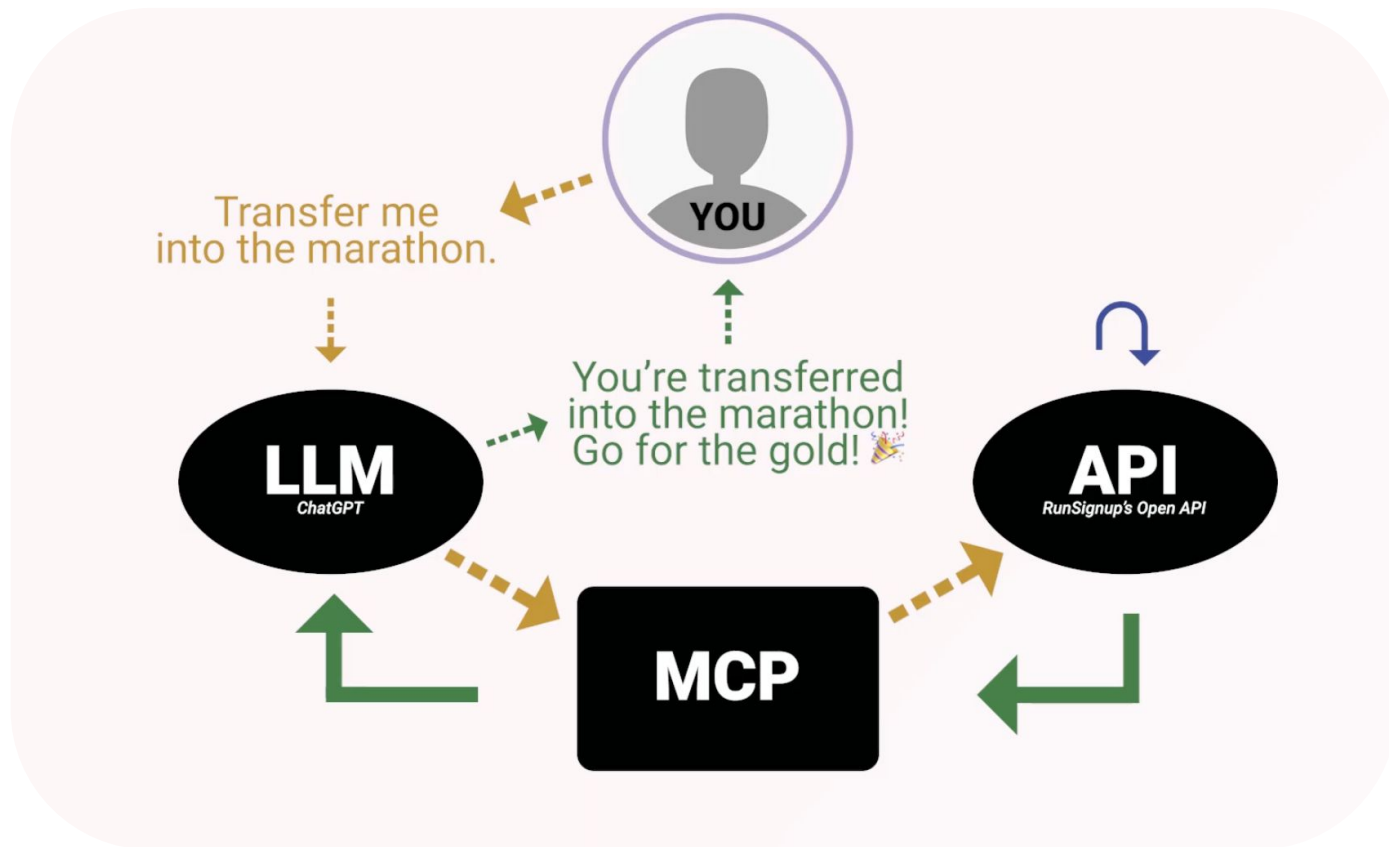


Long Term Customer Service Agent

- Deliver customer service directly
 - Can you transfer my bib to my friend?
 - Move my registration from the full to the half.
 - I need to defer my registration to next year.
 - I need to change my shirt size.
 - I can't make the event. What are my options?
- AI Agent for Event Directors (dashboard)



Example of the Future



RunSignup AI Future

- MCP discovery will eventually be incorporated into all LLM's like ChatGPT, Gemini and Claude
- Improved Event Searching based on content + real data
- Most actions done in the RunSignup AI Chatbot will be available from any ChatGPT type interface
- Chat interfaces will expand to voice and visual





Questions?

Thank You!