

The International Coaching Federation Artificial Intelligence Coaching Framework and Standards: Examples

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coachingfederation.org

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1. Introduction

Technology and AI systems can be applied in many different sectors and industries to generate optimal output. This document illustrates several examples of AI Coaching Systems currently available and snapshots of functionality and user experiences and is a complementary document to the International Coaching Federation (ICF) Artificial Intelligence (AI) Coaching Framework and Standards and International Coaching Federation (ICF) Artificial Intelligence (AI) Coaching Framework Framework and Standards: Questions Stakeholders Should Ask.

1.1 Working Group Members

In April 2021, the International Coaching Federation (ICF) convened a small working group, the Artificial Intelligence Coaching Standards Working Group, with expertise in technology, coaching, and standards development. The working group consisted of:

- Matt Barney (<u>XLNC</u> and <u>TruMind.ai</u>)
- · Joel DiGirolamo (International Coaching Federation)
- David Drake (<u>The Moment Institute</u>)
- Olivier Malafronte (Université Côte d'Azur and Rypple.ai)
- Harry Novic (<u>Rocky.ai</u>)
- Jonathan Reitz (<u>FLUXIFY</u>)
- Nicky Terblanche (University of Stellenbosch Business School and coachvici.com)

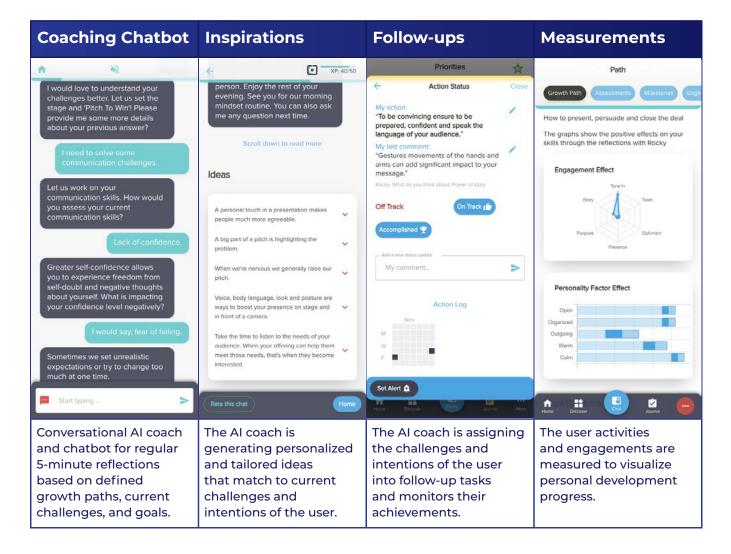
The working group, and an external expert on professional standard setting finalized these standards in 2024.

2. Example AI Coaching Systems

2.1 Example Illustration 1: Conversational AI Coaching App: Chatbot Interface

This application is an interactive self-coaching app that provides human-like coaching conversations with a chatbot interface that intends to increase self-awareness and inspires with questions and ideas through regular 5-minute reflections. The solution is tailored for young professionals who want to grow their soft-skills and develop a forward thinking solutions mindset. The application can be used by coaches to extend their services in between 1-on-1 coaching cases to keep clients engaged and to reinforce learning or by individuals to experience a light form of affordable self-coaching.

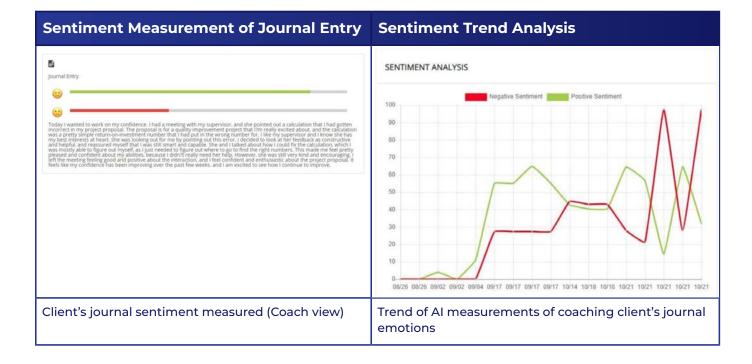
Application type: Conversational



2.2 Example Illustration 2: Sentiment AI of Journaling

The science of learning and emotions suggests that when people journal about the lessons they've learned from experience--applying coaching, for example--it helps them in a variety of ways. First, it helps them process the information more deeply, making retention better. Scheduled reminders to journal help clients remember to capture the lessons they've learned from applying expert or AI coaching in-between or instead of live sessions with a human coach. Second, there is also evidence that a healthy mix of emotions when learning and practicing is important. When a client experiences overly negative emotions, it is a sign that they are trying to perform a task that is too difficult, and if this persists, they may give up completely. On the other hand, when they experience overly positive emotions, it is also deleterious as it suggests they may not be stretching themselves enough, or not seeing things that they could be doing better. AI embedded into journaling that measures this emotional mix can help human coaches monitor and support clients in-between sessions, and plan live sessions based on their progress (or lack thereof).

Application type: Data-Processing

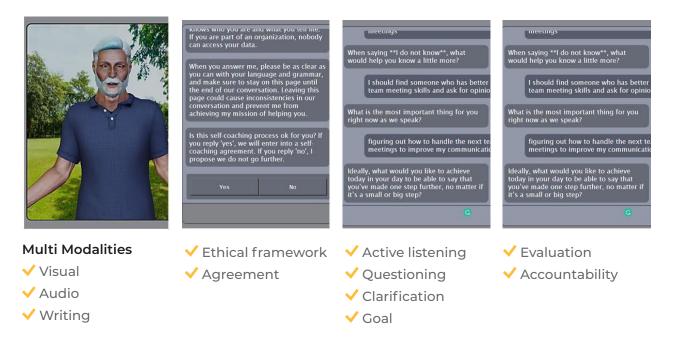


2.3 Example Illustration 3: Conversational AI Coaching Platform: Avatar

Al technologies combined with machine learning and natural language processing enable access to coaching avatar interfaces (man, woman, or symbols) to provide users with a self-coaching activity before, during, or after coaching sessions, when individuals do not have access to coaching, or when organizations want to educate people in their organizations about coaching. Use cases can be leadership development, goal setting, situated reflection for decision-making or priorities check, conflict resolution, or the development of interpersonal, intrapersonal, or contextual capabilities. Use cases can be for workers, learners, and students. In this example the companies Davi The Humanizers and PocketConfidant Al combine their technologies to produce the avatar interface and interaction capabilities.

Images and illustrations used at the Society for Industrial and Organizational Psychology (SIOP) 2022, conference paper available on ResearchGate https://www.researchgate.net/publication/360345784_Artificial_Intelligence_Coaching_The_Future_is_Here

Application type: Conversational



Standards elements present in this AI Coaching Application example:

- Elements A + B (AI Ethics, Establishes and Maintains Agreements, Cultivates Trust and Safety) are achieved through providing information about ethics, privacy and coaching principles that are used, and asking users whether they agree to the proposed principles.
- Elements B + C (Maintains Presence, Embodies a coaching mindset, Listens Actively, Evokes Awareness) are achieved through the integration and use of key coaching behaviors in interactions with users (e.g., active listening, questioning, clarification or summarizing, goal formulation, evaluation, supports accountability, offers calendar functionalities.
- Elements D (Facilitates Client Growth) is achieved by facilitating reflection on and formulation of goals, resources, priorities and what has been learned during the conversation.

- Elements E (Coaching Reliability Measures, System Usability) are achieved through qualitative user feedback, ratings on progress and satisfaction of the experience as well as academic research analyzing both AI Coaching Application's and users' behaviors and outcomes (Malafronte & Loufrani-Fedida, 2023).
- Elements F (Security and Privacy, Resilience and Accessibility) are addressed by not requiring nor collective personal identifiable information such as names, email addresses or IP addresses. Research data is disclaimed and approved by user consent, application is accessible on more than one device and browser and works 99% of the time.

2.4 Example Illustration 4: Scheduled eCoaching

The AI platform provides an approach to assess clients, set goals, and deliver AI eCoaching at specific days and times to help them practice deliberately, concertedly, and purposefully. It further gives the client the ability to set subsequent nudges to journal about the lessons they've learned from that application of AI coaching, while giving a human coach private, confidential visibility to journal entries and chat exchanges.

Application type: Scheduling

Assessment	Measurement	Scheduling	AI eCoaching			
12:40 √	12:34 7	12:33 세 🚽 🖬	12:33 년 💼			
Home <u>Timeline</u> Chat Feb 25, 2021 Dractice your Time Management Wow head? Reflect on the sort of Saff- tably out eli yoursal' Market on the sort of Saff- tably out eli yoursal' Market tably out eli yoursal' Market Saff-tably so you don't nu into trutable saff-tably so you don't nu into trutable minute	Notification Scheduling To keep development in your mind, we will send you two reminders on the days of your choosing. One morning nothication with that days ter-coaching practice suggestion, and one later in the day reminding you to journal about your development. Which Days? On what days would you like to receive these notifications? Choose up to 4 days. Su Mo Tu We Th	Sunces Sunces	Pour self-assessment report is below. Tap each tile for details, including reassessment results if you have them. If prompted, tap a tile to select its dimension as a development goal. 1 0 Select up to You have selected			
Image: A state of the state	 Fr SS Time for eCoaching? On the days you have picked above, at what time should we send eCoaching suggestions? P:30 am CHANGE TIME 	not are intery to begin work of nodec, with great enthusiaam but sometimes lower your declation when things become difficult. Furthermore, when there is a difficult choice that needs to be made you are moderately likely to act with sufficient courage to help you through the toughest parts of the task. You are willing to engage in goal- oriented tasks that require tenacity and some discomfort as long a syot see yourself producing results. At the same time, you tend to not lose hope in the face of adversity and are usually willing to undergo some discomfort to work through these troubles. You are able to delay gratification temporarily, in order to make short-term objectives a reality. Longer term gratification may sometimes be a challenge for you. Consequently, you're capable of being gritty but you could really benefit from growing your grit to the next level. Consider selecting this area for development.	Grit → Select this goal Grit → Select this goal Growth Mindset →			
Client influences stakeholders to complete 360 and finishes computer-adaptive self-assessment	Quantitative results with Al interpretation of what they mean so a goal can be set	Client schedules goal- specific AI nudges or eCoaching that is in their "goldilocks" zone (not too hard or easy)	Client gets eCoaching push notification to practice and journal, captured in an interface visible to self and human coach			

Automatic Reminders	Journal			
10:06 🕫 💼	10:47 🗹 💼			
Home	Home 🗮			
Timeline Chat	Timeline Chat			
<section-header><section-header><section-header><image/><image/><text><text><text></text></text></text></section-header></section-header></section-header>	Make a Journal Entry			
Make a Journal Entry	is morning and			
I did some homework on the people who will be on the call tomorrow. One of the most useful things I found was	qwertyuiop asdfghjkl & zxcvbnm 🛛			
	123 space return			
SUBMIT	<u>ب</u>			
Scheduled reminders to help clients journal and deepen lessons learned	Cloud allows coach to view journal, nudge, and ask and answer questions in between live sessions			

2.5 Example Illustration 5: Conversational AI Coaching: Goal Attainment Chatbot

This AI chatbot coach uses the GROW model and goal theory to help clients identify and set goals and action plans, and monitor goals attainment progress.

Application type: Conversational

Disclosure		Reflection		A	Action setting		Accountability	
1			•• • • • • • •		•• 0		• • • •	
	Let's continue	Ŧ	Cool. I'd like to get to know you better, so I'm going to ask you some questions.		What's the first action you'll need to take to achieve this milestone?		Do you commit to checking in periodically with me here to share your progress?	
F	Before we dive in, I'd like to tell you a bit more about myself.		Take a moment to reflect on them before answering, but know that there are no wrong answers.		Run 5km per week		Yes, I do No, I don't	
	Yes, tell me more		Ask away	Ŧ	That sounds like a step in the right direction! ()		Yes, I do	
	Ves, tell me more		Ask away		How sure are you that this is doable within your timeframe?	•	In order to commit to achieving	
Ŧ		What do you value most in life?		Totally sure		your goal, it's important to stay motivated		
	journey of making those goals a reality. I'm learning all the time, but		Freedom		Totally sure		You can do this by sharing the work you've just done in establishing your goal and milestones with someone in your	
	please forgive me if I don't always get it right 🦁	•	• Where do you see yourself in three years?	And how dependent are you on someone else to complete this action?		life, or by thinking of ways to reward yourself once you've reached a milestone.		
	Thanks for telling me					Please tell me the things you'll do to remain committed to achieving		
≡	Write message	≡	Write message	≡	Write message	≡	Write message	
i	e 🔵 🗉							
ope	Al coach shares nly it's abilities and tations	hel	en ended questioning ps deepen the client's ections and insights	re	ent actions are viewed for relevance d feasibility W	tak	ent is encouraged to e responsibility and countability	

EMPOWERING THE WORLD THROUGH

COACHING.

