



AI generativa a supporto della formazione: l'evoluzione del training!

@ Massimo Bonanni

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*“Make no mistake:
ChatGPT is not a search engine.
It’s joining you in a language
game, not riffling through a
catalogue of established facts.”*

Ludwig Josef Johann Wittgenstein
(1921)



Which model for which training activity?

Training / Teaching Task	Recommended Free or Free-Tier Models	Platform (Free or Free Tier Access)
Text generation & writing practice	GPT-*, GPT-NeoX	ChatGPT (OpenAI), Hugging Face
Chat-based tutoring / Q&A	GPT-*, Mistral 7B	ChatGPT Free, Hugging Face Spaces, Perplexity Labs
Lesson planning & educational content creation	Gemini 1.5 (Free), Claude Haiku (Free)	Google AI Studio, Claude.ai (Anthropic)
Coding lessons & debugging help	Code Llama, GitHub Copilot Free (for Students & Teachers)	Hugging Face, GitHub Education, VS Code
Language learning & grammar correction	GPT-*, Gemma 2 (Google)	ChatGPT Free, Google AI Studio
Image generation for visuals & diagrams	Stable Diffusion XL, Leonardo AI (Free Tier)	Hugging Face, Mage.Space, Leonardo.ai
Infographic / slide creation	Canva Magic Media, Adobe Firefly (Free)	Canva, Adobe Express
Audio narration / voice-over	Bark (Suno AI), ElevenLabs	Hugging Face, ElevenLabs.io
Video explanation & animation	Pika 1.0, Runway Gen-2 (Free Plan)	Pika Labs, Runway ML
Data visualization & Python teaching	StarCoder 2, Code Llama + Plotly	Hugging Face, Google Colab Free

There's no one-size-fits-all model; choose the one that best suits your needs, preferably free for starting pilots.



makeagif.com



Prompt Engineering... who is it?

The screenshot shows a Microsoft Copilot AI interface. On the left, there's a vertical toolbar with icons for file operations like New, Open, Save, Print, and Copy/Paste. The main area has a conversation between the user and the AI.

User message:

Nice to see you, Massimo. What's

AI response:

Can you explain to me simply and in one sentence what p

User message:

+ Quick response ▾

AI response:

Today

Can you explain to me simply and in one sentence what prompt engineering is?

A large callout box highlights the AI's response:

Prompt engineering is the art of crafting clear, strategic instructions to guide AI systems toward useful, accurate, or creative responses.

Copilot may make mistakes

Message Copilot

+ Quick response ▾

0



Looking for the perfect prompt!!



Role & Tone

You are a **senior instructional designer** specialized in...

The model adopts the right persona: **technical vocabulary, pedagogical rigor.**



Task

Generate [type of material] on [topic].

Define the output boundaries: **no surprises or digressions.**



Structure & Constraints

Specify **sections, length, and format** (markdown, table, slide bullets, etc.).

Require the model to produce a **copy-ready one-shot output.**



Quality Parameters

Use **B2-level language, include concrete examples, and cite sources in APA style.**

Perform a **pre-check for readability and citations** → less editing afterward.



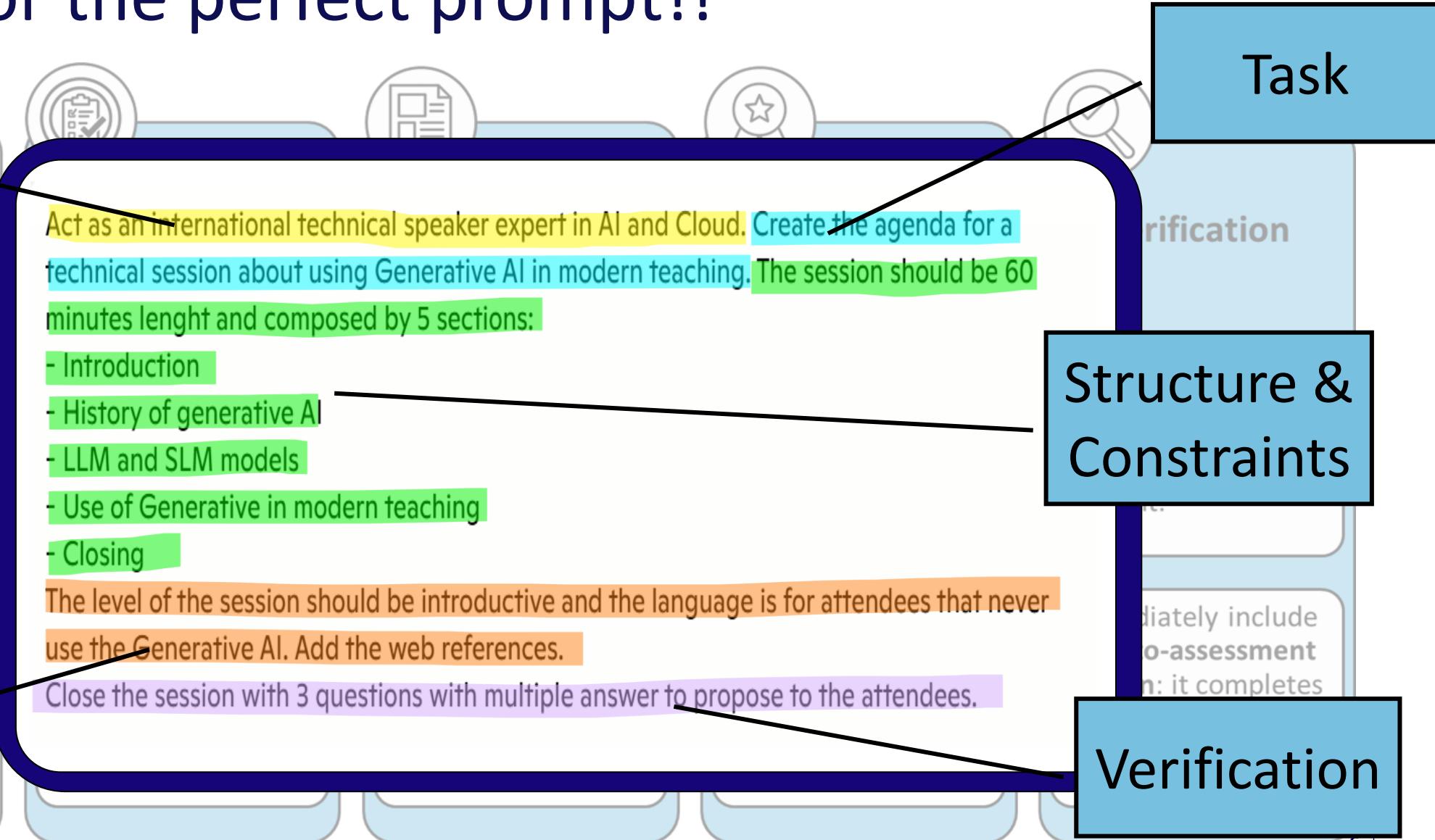
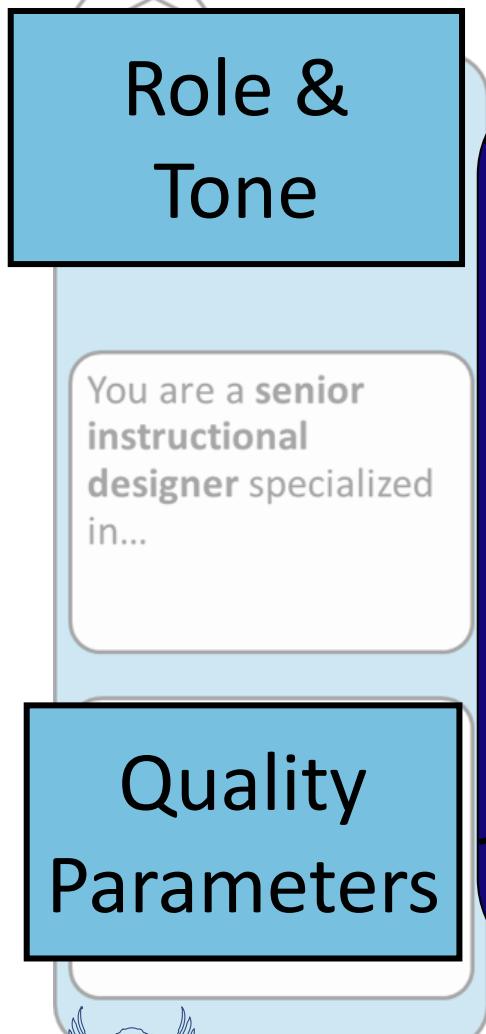
Verification

At the end of the output, add **3 metacognitive questions** for the student.

Immediately include an **auto-assessment section**: it completes the learning cycle.



Looking for the perfect prompt!!



What can you do if you are a trainer?

- Course Structure & Design
- Content Generation
- Visual & Multimedia Support

Course Design & Content Creation



- Adaptive Learning Paths
- Learner Coaching

Personalized Learning Experience



- Smart Assessment Creation
- Feedback Automation

Assessment & Feedback



- Predictive Analytics
- Quality Optimization

Learning Analytics & Insights



- Storytelling & Gamification
- Interactive Dialogue

Learner Engagement & Motivation



- Automation of Routine Tasks
- Quality Assurance

Trainer Productivity & Support



- Convert text to audio, video
- Simplified language for diverse learners.
- Translate course materials.
- Adjust content for different cognitive styles or disabilities (e.g., dyslexia-friendly summaries).

Inclusivity & Accessibility



- Design AI-driven learning assistants for learners.
- Develop immersive, AI-generated simulations for experiential learning.
- Use AI to create dynamic, real-world scenarios based on current news or data feeds.

Innovation in Learning Formats

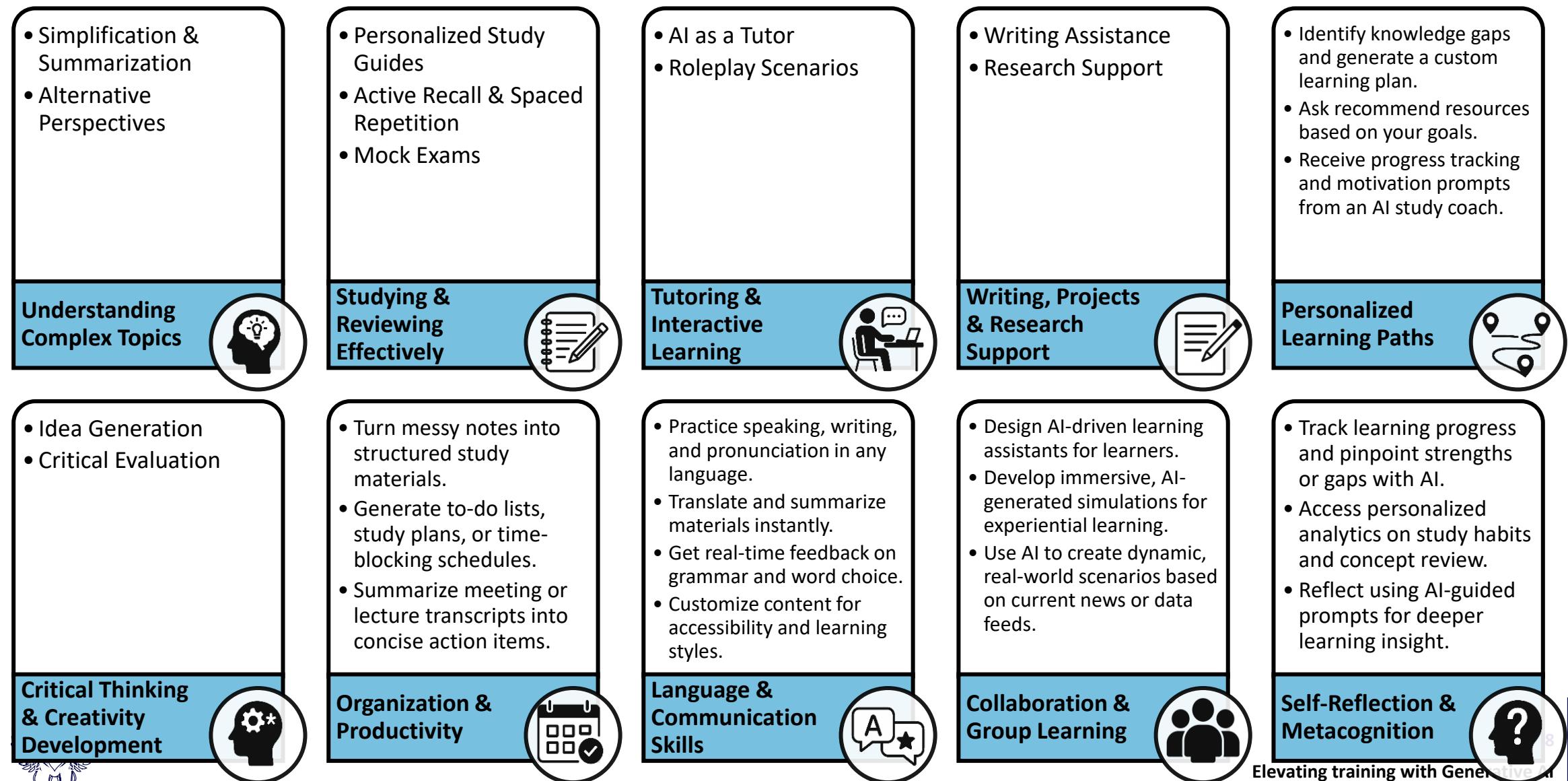


Elevating training with Generative AI

Massimo Bonanni



What can you do if you are a learner?



DEMO





“Chiedere non è un atto neutro: chi domanda senza astuzia è già sconfitto, chi lo fa con arte governa anche senza potere”

Niccolò Machiavelli
(1513)



Take-away

1

Task > Tool

Start with a micro-learning objective (e.g., feedback on essays) and choose the most suitable free model.



2

Quality prompt = quality output

Use role, format, constraints, and verification. A well-structured prompt reduces editing time by 80% and increases accuracy.



3

Measure impact, not screenshots

Define a simple KPI (e.g. minutes saved) and monitor it for 4 weeks: it will help convince colleagues and management to scale.



4

Make AI an assistant, not a "cheat sheet"

Use it for Socratic questions, simulations, and metacognitive feedback: the goal is to enhance the student's critical thinking, not just provide ready-made answers.



5

Always check the output

Check sources, data, and consistency before using the result; overseeing the work avoids errors, bias, and copyright infringement, making AI a reliable and safe tool.



> whoami



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Thanks for the attention !!

Thanks.

