



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)



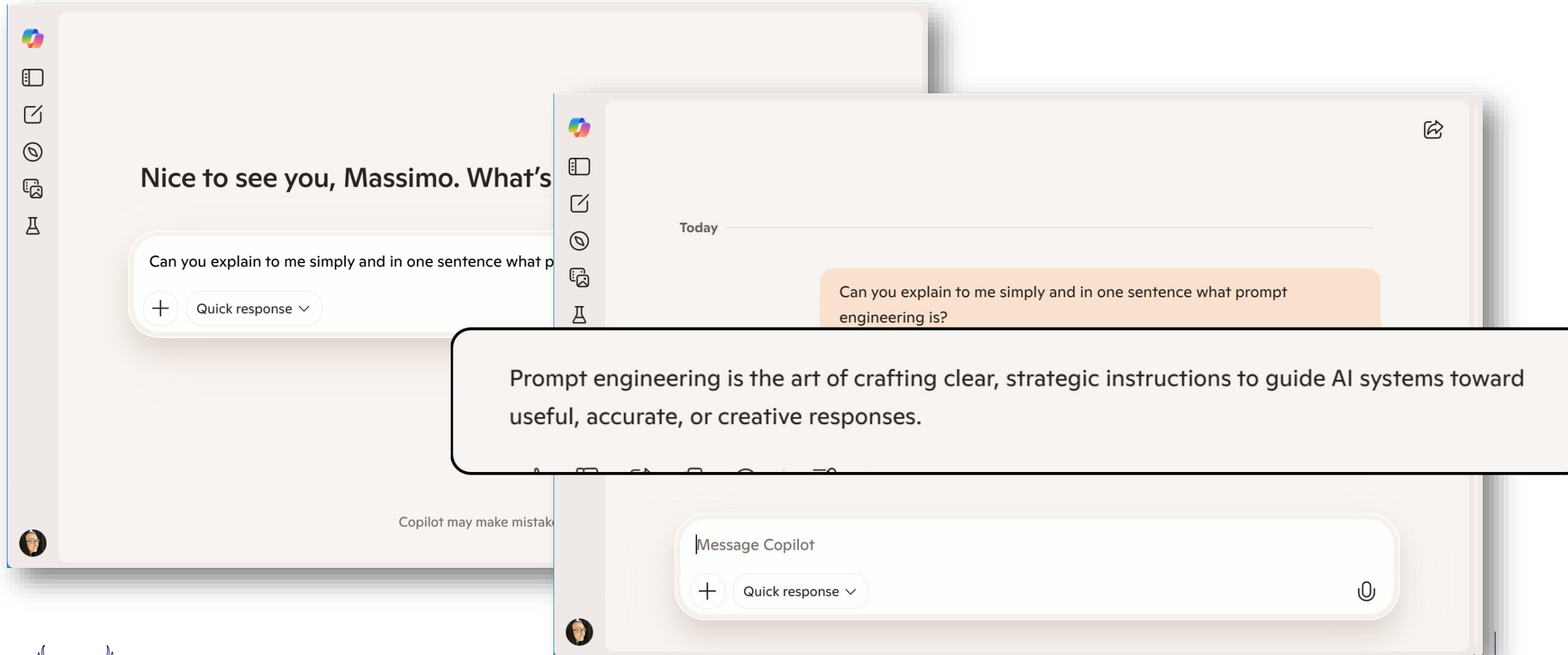
Which model for which training activity?

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.



Prompt Engineering... who is it?



Nice to see you, Massimo. What's up?

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

+

Quick response ▾

Today

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

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

Message Copilot

+

Quick response ▾

Copilot may make mistakes



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]**.

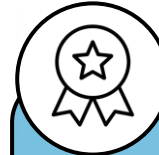
Define the output boundaries: **no surprises or digressions.**



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.



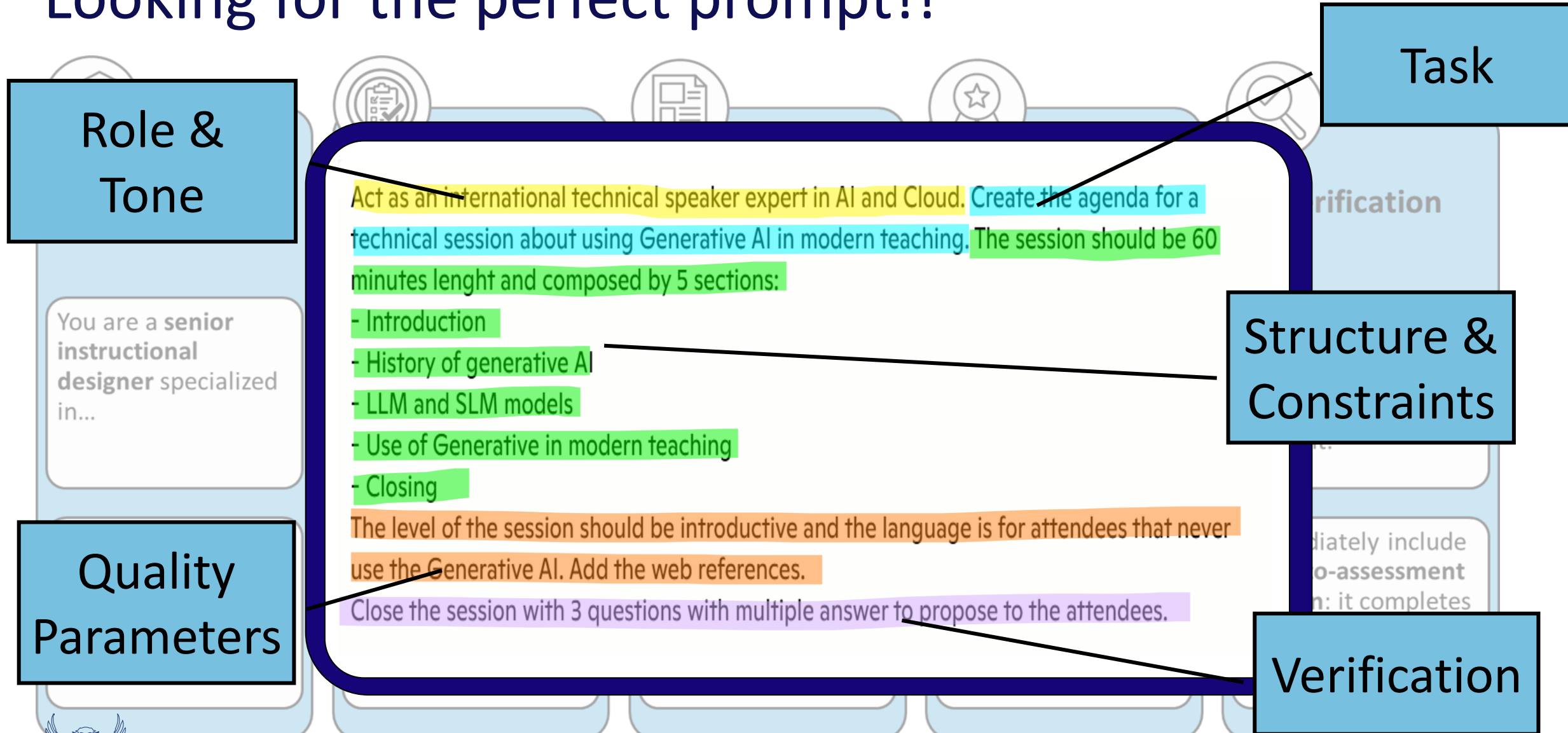
Verification

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



What can you do if you are a learner?

- Simplification & Summarization
- Alternative Perspectives

Understanding Complex Topics



- Personalized Study Guides
- Active Recall & Spaced Repetition
- Mock Exams

Studying & Reviewing Effectively



- AI as a Tutor
- Roleplay Scenarios

Tutoring & Interactive Learning



- Writing Assistance
- Research Support

Writing, Projects & Research Support



- Identify knowledge gaps and generate a custom learning plan.
- Ask recommend resources based on your goals.
- Receive progress tracking and motivation prompts from an AI study coach.

Personalized Learning Paths



- Idea Generation
- Critical Evaluation

Critical Thinking & Creativity Development



- Turn messy notes into structured study materials.
- Generate to-do lists, study plans, or time-blocking schedules.
- Summarize meeting or lecture transcripts into concise action items.

Organization & Productivity



- Practice speaking, writing, and pronunciation in any language.
- Translate and summarize materials instantly.
- Get real-time feedback on grammar and word choice.
- Customize content for accessibility and learning styles.

Language & Communication Skills



- 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.

Collaboration & Group Learning



- Track learning progress and pinpoint strengths or gaps with AI.
- Access personalized analytics on study habits and concept review.
- Reflect using AI-guided prompts for deeper learning insight.

Self-Reflection & Metacognition



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

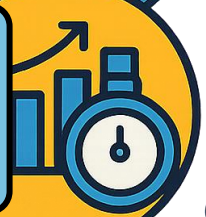
Use role, format, constraints, and verification. A well-structured prompt reduces editing time by 80% and increases accuracy.



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.



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Thanks for the
attention !!

Thanks.

