

AI in E-Learning — Engineering & Compliance Decision Sheet

Fora Soft Learn · AI for Video Engineering

1 — The feature catalog (the group decides everything)

Understand	Transcribe, caption, chapter, tag, search. Pipelines: ASR / VLM / embeddings.
Help	AI tutor (RAG), summaries, study plans, quizzes, dubbing. Pipelines: LLM / TTS.
Judge	Grading, admissions/placement, proctoring. HIGH-RISK — a different build.

2 — Two clocks: place every feature on the right one

Clock	When	Budget
Async catalog	content already exists	→ run in a cheap queue (cost per hour, not speed).
Real-time class	live class/tutor/proctor	→ sub-100 ms latency budget (a different build).

3 — EU AI Act risk tiers (sort the feature, then build)

Tier	Covers	What applies
LOW-RISK	convenience (captions, tutor, search, summaries)	accuracy + accessibility + privacy.
HIGH-RISK	Annex III(3): grading, admissions/placement, proctoring	→ full regime from 2 Aug 2026.
PROHIBITED	Article 5: inferring students' emotions from faces	banned since 2 Feb 2025.

4 — Add it: embed / assemble / build + cost math

Route	Time	Trade-off
Embed via LTI 1.3 / vendor	days-weeks	vendor handles accuracy & data; margin/data are theirs.
Assemble on AI APIs	weeks-months	control the experience; you own integration & privacy.
Build on open models	months	audio & data never leave; no per-learner fee; you run it.

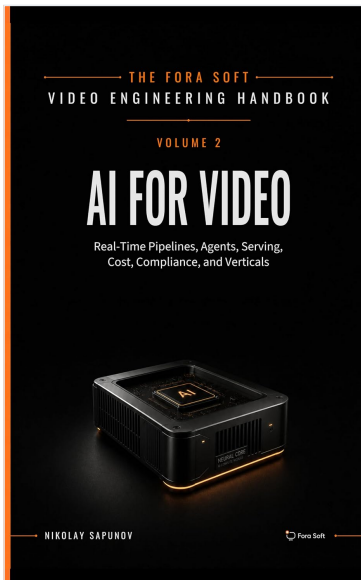
Cost: AI draft ~\$0.50/lecture-hour (~\$25 / 50h course) vs human captions \$60-\$180/hr (99%).

5 — Compliance gate — before launch (context, not legal advice)

- ☐ Caption to WCAG 2.2 (SC 1.2.2) and the European Accessibility Act — auto-captions are a draft, not access.
- ☐ Correct ASR captions to ~99% accuracy for any video you call accessible; mark human-verified vs auto.
- ☐ Sign a FERPA / GDPR data agreement that forbids the vendor training on your student data.
- ☐ Keep student data out of model weights — prefer RAG over fine-tuning on raw records.
- ☐ Disclose AI to the learner (EU AI Act Article 50): tutor identifies itself; AI content is labelled.
- ☐ Anything that judges a learner (grade/admit/proctor): human-in-the-loop decision + fairness testing.

Companion to: 'AI in E-Learning — Engineering & Compliance Decision Sheet'

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This sheet sorts e-learning AI features by group, clock and EU AI Act tier and shows the compliance gate. Volume 7 covers live captions and translation, real-time pipelines, regulation including the EU AI Act, and vertical playbooks, education among them.

WHAT YOU WILL FIND INSIDE

- Live captions and translation in real time
- EU AI Act tiers for education features
- Serving and cost per stream-hour
- Vertical playbooks for e-learning

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