Ovation

Knowledge Packs

Turn course content into conversation.

Bundle textbook chapters, reports, case files, study guides, and other source documents into one searchable pack. Attach it to an assignment to inform AI responses during student practice and post-session feedback.

Practice built around what you teach.

FOR PROFESSORS

Choose the source material behind an exercise. Reuse it across assignments and focus practice on the concepts you teach.

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Specific sources. More relevant practice.

Build assignments around the facts, figures, and definitions you teach.

Rehearse for a business review

Add a quarterly report and your own notes to an assignment's Knowledge Pack. Students rehearse presenting results to a leadership team, explaining changes, and answering follow-up questions. The report gives the AI specific facts and figures to draw on.

Use the report's actual figures.

READING EXCERPT

"Empathy is seeing, understanding, and sharing others' viewpoints without judgment."

Practice for an exam

Use your course glossary or assigned reading to guide practice with exact definitions. Nursing students could explain empathy, apply it to a patient scenario, and review how their answer reflects the selected definition.

Practice with the definitions you need to know.

Prepare for a trial

Attach a pack of legal briefs, witness statements, your own notes, and supporting documents to an assignment. Students rehearse opening arguments or case discussions, with relevant case details informing the AI's responses.

Practice with the facts of this case.

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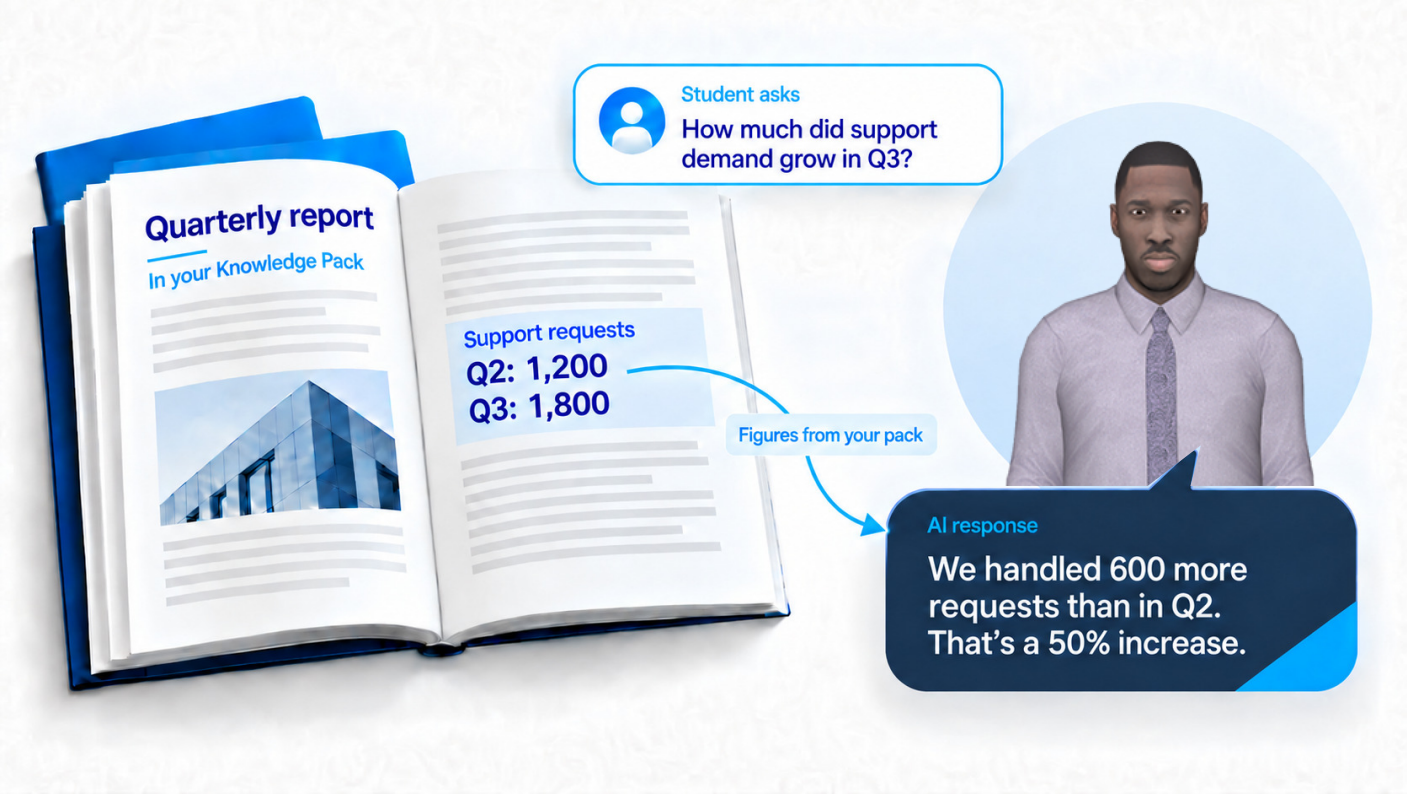
Bring your materials into the conversation.

As students practice, Ovation finds relevant passages from your Knowledge Pack to help inform the AI's responses. This brings your course concepts, case details, and other reference material into the conversation.



During practice

The assignment and conversation guide which passages the AI receives. These selected excerpts provide context for questions and responses.

After practice

Feedback can draw on the student's session and relevant pack material, connecting reflection to the references you selected.

Knowledge Packs support a broad range of materials

Upload readings, notes, and reference documents in Word, PDF, PowerPoint, or plain text.

See how Ovation fits your program.
ovationvr.com/book-a-demo

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TECHNICAL OVERVIEW

How Knowledge Packs work

Knowledge Packs use **retrieval-augmented generation (RAG)**: finding relevant information in your source documents and supplying it to the AI as context for a response. This lets assignment creators ground practice in course-specific facts, definitions, and policies without retraining the AI model.

Extract text → **Index by meaning** → **Retrieve passages** → **Generate**

1. Prepare and index

The assignment creator uploads documents into a pack and attaches it to an assignment. Ovation extracts readable text and divides it into smaller, overlapping passages called **chunks**. It creates **embeddings**, numerical representations of meaning, and stores them in a searchable index.

Semantic search compares meaning, so a question can retrieve a relevant passage even when it uses different wording.

2. Retrieve and respond

At session start, the assignment, scenario, AI role, and optional Knowledge Pack focus guide excerpt selection. Dynamic retrieval can refresh that context as the conversation changes; assignment creators can turn it off.

For feedback, retrieval considers the session transcript, evaluation criteria, and assignment focus. Selected passages are supplied alongside the AI's instructions to help inform its response.

Two examples of retrieval in practice

Specific figures

Report: Q2 support requests: 1,200. Q3: 1,800.
Student: "How much did demand grow?"
AI response: "600 more requests, a 50% increase."
The retrieved figures provide the basis for the comparison.

Meaning beyond exact words

Policy: Delays over 48 hours go to the account manager.
Student: "The shipment is three days late. Who should I notify?"
Retrieval connects the question to the escalation rule, informing the AI's answer.

Prepare useful source material

Use readable text, clear headings, and focused paragraphs. Keep facts, qualifications, and citations together. Explain essential charts in text; image-only scans need text recognition first. Keep sources current, remove duplicate versions, and use concrete topics in the assignment focus.

Understand the scope

The AI receives selected excerpts within a limited context budget, rather than every page on every turn. Retrieval supports relevance but does not guarantee that every detail is found or every answer is correct. Preview the assignment and check important facts and definitions.

RAG background: Lewis et al., Retrieval-Augmented Generation (2020).